Table 4. Effective Collision Strengths for Transitions in Fe XV.

Transition		Temperature (log T_e, K)										
i	j	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
1	2	3.770-2	3.279-2	2.748-2	2.237-2	1.793-2	1.422-2	1.105-2	8.354-3	6.139-3	4.399-3	3.085-3
1	3	2.870-1	2.374-1	1.902-1	1.513-1	1.244-1	1.062-1	9.087-2	7.655-2	6.412-2	5.472-2	4.850-2
1	4	2.230-1	2.030-1	1.727-1	1.399-1	1.097-1	8.405-2	6.301-2	4.620-2	3.319-2	2.340-2	1.623-2
1	5	2.628-0	2.643-0	2.674-0	2.732-0	2.829-0	2.954-0	3.098-0	3.276-0	3.506-0	3.803-0	4.133-0
1	6	2.430-3	2.164-3	1.844-3	1.520-3	1.227-3	9.680-4	7.411-4	5.521-4	4.040-4	2.933-4	2.130-4
1	7	1.120-1	1.184-1	1.203-1	1.223-1	1.255-1	1.261-1	1.226-1	1.167-1	1.111-1	1.069-1	1.037-1
1	8	4.194-3	4.068-3	3.603-3	2.957-3	2.281-3	1.674-3	1.181-3	8.079-4	5.407-4	3.563-4	2.321-4
1	9	3.249-2	3.392-2	3.361-2	3.330-2	3.339-2	3.272-2	3.087-2	2.844-2	2.620-2	2.451-2	2.324-2
1	10	1.603-2	1.352-2	1.126-2	9.367-3	7.809-3	6.491-3	5.364-3	4.421-3	3.652-3	3.026-3	2.500-3
1	11	3.032-2	2.729-2	2.472-2	2.319-2	2.187-2	1.978-2	1.681-2	1.350-2	1.035-2	7.663-3	5.508-3
1	12	5.085-2	4.555-2	4.094-2	3.780-2	3.502-2	3.128-2	2.645-2	2.123-2	1.633-2	1.214-2	8.759-3
1	13	7.177-2	6.396-2	5.736-2	5.276-2	4.860-2	4.322-2	3.646-2	2.925-2	2.250-2	1.673-2	1.209-2
1	14	1.909-1	1.958-1	2.199-1	2.680-1	3.129-1	3.303-1	3.216-1	3.014-1	2.810-1	2.657-1	2.546-1
1	15	1.359-3	1.307-3	1.285-3	1.261-3	1.170-3	1.005-3	8.092-4	6.227-4	4.665-4	3.445-4	2.525-4
1	16	2.108-3	2.000-3	1.832-3	1.630-3	1.388-3	1.117-3	8.539-4	6.262-4	4.459-4	3.114-4	2.146-4
1	17	3.193-3	2.923-3	2.613-3	2.302-3	1.995-3	1.706-3	1.446-3	1.224-3	1.035-3	8.728-4	7.280-4
1	18	3.417-3	3.127-3	2.762-3	2.374-3	1.960-3	1.540-3	1.154-3	8.324-4	5.835-4	4.005-4	2.704-4
1	19	1.027-3	9.027-4	7.793-4	6.585-4	5.367-4	4.180-4	3.120-4	2.252-4	1.587-4	1.100-4	7.534-5
1	20	2.001-3	1.764-3	1.509-3	1.249-3	9.958-4	7.654-4	5.704-4	4.154-4	2.977-4	2.108-4	1.479-4
1	21	1.938-3	1.722-3	1.496-3	1.261-3	1.016-3	7.789-4	5.717-4	4.062-4	2.825-4	1.942-4	1.331-4
1	22	5.770-4	5.078-4	4.320-4	3.551-4	2.811-4	2.138-4	1.571-4	1.123-4	7.853-5	5.399-5	3.655-5
1	23	1.587-3	1.404-3	1.203-3	9.996-4	7.981-4	6.100-4	4.483-4	3.194-4	2.223-4	1.519-4	1.023-4
1	24	2.093-3	1.846-3	1.565-3	1.277-3	1.001-3	7.548-4	5.499-4	3.900-4	2.710-4	1.853-4	1.250-4
1	25	5.593-3	6.111-3	6.521-3	6.607-3	6.269-3	5.637-3	4.918-3	4.264-3	3.736-3	3.340-3	3.040-3
1	26	3.141-3	3.456-3	3.528-3	3.383-3	3.061-3	2.644-3	2.236-3	1.908-3	1.690-3	1.581-3	1.551-3
1	27	6.118-5	5.929-5	5.392-5	4.609-5	3.715-5	2.859-5	2.138-5	1.579-5	1.169-5	8.791-6	6.782-6
1	28	9.444-5	8.914-5	7.869-5	6.541-5	5.141-5	3.856-5	2.796-5	1.979-5	1.378-5	9.453-6	6.397-6
1	29	1.697-4	1.532-4	1.290-4	1.029-4	7.840-5	5.748-5	4.098-5	2.866-5	1.977-5	1.347-5	9.073-6
1	30	1.531-3	1.368-3	1.223-3	1.085-3	9.478-4	8.218-4	7.218-4	6.552-4	6.206-4	6.108-4	6.124-4
1	31	3.772-5	3.140-5	2.545-5	1.989-5	1.491-5	1.079-5	7.616-6	5.311-6	3.696-6	2.587-6	1.831-6
1	32	1.126-4	9.204-5	7.323-5	5.634-5	4.168-5	2.974-5	2.064-5	1.407-5	9.469-6	6.320-6	4.187-6
1	33	5.429-4	4.770-4	4.184-4	3.631-4	3.094-4	2.609-4	2.224-4	1.958-4	1.804-4	1.737-4	1.714-4
1	34	4.812-4	4.282-4	3.781-4	3.276-4	2.767-4	2.293-4	1.893-4	1.577-4	1.331-4	1.133-4	9.584-5
1	35	3.055-3	3.023-3	2.820-3	2.439-3	1.990-3	1.578-3	1.250-3	1.011-3	8.442-4	7.305-4	6.487-4
1	36	4.513-2	3.425-2	2.531-2	1.829-2	1.302-2	9.216-3	6.520-3	4.621-3	3.274-3	2.310-3	1.615-3
1	37	1.114-1	1.090-1	1.060-1	1.034-1	1.016-1	1.010-1	1.014-1	1.027-1	1.047-1	1.069-1	1.083-1
1	38	3.228-3	2.778-3	2.302-3	1.854-3	1.469-3	1.154-3	9.009-4	6.954-4	5.280-4	3.925-4	2.850-4
1	39	2.620-2	2.305-2	1.933-2	1.573-2	1.279-2	1.076-2	9.709-3	9.681-3	1.072-2	1.283-2	1.570-2
1	40	1.655-2	1.457-2	1.216-2	9.775-3	7.703-3	6.013-3	4.660-3	3.574-3	2.700-3	1.999-3	1.447-3
1	41	5.464-2	5.030-2	4.307-2	3.537-2	2.898-2	2.472-2	2.294-2	2.383-2	2.756-2	3.421-2	4.283-2
1	42	4.488-3	3.890-3	3.335-3	2.855-3	2.443-3	2.077-3	1.740-3	1.425-3	1.133-3	8.714-4	6.480-4
1	43	8.333-3	7.194-3	6.169-3	5.308-3	4.594-3	3.987-3	3.457-3	2.988-3	2.581-3	2.242-3	1.968-3
1	44	1.073-2	9.239-3	7.884-3	6.728-3	5.745-3	4.879-3	4.086-3	3.344-3	2.659-3	2.045-3	1.521-3

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
1	45	4.747-2	4.328-2	3.895-2	3.563-2	3.376-2	3.346-2	3.470-2	3.743-2	4.152-2	4.667-2	5.191-2
1	46	1.037-5	8.330-6	6.713-6	5.455-6	4.458-6	3.640-6	2.944-6	2.340-6	1.817-6	1.371-6	1.004-6
1	47	2.722-4	2.585-4	2.469-4	2.371-4	2.285-4	2.209-4	2.146-4	2.106-4	2.106-4	2.163-4	2.271-4
1	48	3.528-5	2.893-5	2.414-5	2.043-5	1.736-5	1.466-5	1.218-5	9.887-6	7.788-6	5.937-6	4.377-6
1	49	2.016-3	1.988-3	1.959-3	1.927-3	1.889-3	1.846-3	1.798-3	1.752-3	1.717-3	1.708-3	1.721-3
1	50	7.303-3	7.120-3	6.886-3	6.570-3	6.143-3	5.591-3	4.921-3	4.167-3	3.387-3	2.642-3	1.982-3
1	51	1.024-2	9.977-3	9.644-3	9.197-3	8.597-3	7.823-3	6.884-3	5.831-3	4.740-3	3.699-3	2.776-3
1	52	1.314-2	1.281-2	1.238-2	1.181-2	1.103-2	1.004-2	8.832-3	7.480-3	6.080-3	4.743-3	3.560-3
1	53	4.834-2	4.892-2	4.978-2	5.104-2	5.284-2	5.528-2	5.839-2	6.209-2	6.615-2	7.021-2	7.333-2
2	3	6.728-1	6.147-1	5.462-1	4.585-1	3.646-1	2.784-1	2.057-1	1.475-1	1.032-1	7.071-2	4.770-2
2	4	3.671-1	3.813-1	3.652-1	3.276-1	2.832-1	2.415-1	2.052-1	1.754-1	1.523-1	1.355-1	1.233-1
2	5	8.955-2	9.009-2	8.302-2	7.076-2	5.693-2	4.383-2	3.249-2	2.330-2	1.626-2	1.111-2	7.467-3
2	6	1.314-2	1.193-2	1.053-2	9.018-3	7.494-3	6.049-3	4.747-3	3.632-3	2.714-3	1.985-3	1.421-3
2	7	1.193-1	1.034-1	8.581-2	6.928-2	5.510-2	4.308-2	3.290-2	2.451-2	1.785-2	1.273-2	8.920-3
2	8	1.056-0	1.061-0	1.066-0	1.075-0	1.092-0	1.123-0	1.172-0	1.244-0	1.340-0	1.463-0	1.598-0
2	9	3.714-2	3.372-2	2.862-2	2.303-2	1.772-2	1.312-2	9.408-3	6.580-3	4.523-3	3.076-3	2.079-3
2	10	2.923-3	2.971-3	2.853-3	2.558-3	2.146-3	1.700-3	1.289-3	9.446-4	6.755-4	4.738-4	3.267-4
2	11	7.879-1	7.954-1	8.023-1	8.163-1	8.402-1	8.698-1	9.039-1	9.475-1	1.007-0	1.086-0	1.176-0
2	12	6.963-2	6.084-2	5.324-2	4.869-2	4.549-2	4.087-2	3.423-2	2.681-2	1.992-2	1.425-2	9.915-3
2	13	6.357-2	5.787-2	5.408-2	5.434-2	5.628-2	5.519-2	4.981-2	4.218-2	3.470-2	2.867-2	2.423-2
2	14	2.218-2	2.215-2	2.186-2	2.120-2	1.970-2	1.713-2	1.390-2	1.064-2	7.805-3	5.543-3	3.841-3
2	15	9.704-2	9.293-2	8.954-2	8.685-2	8.469-2	8.313-2	8.236-2	8.249-2	8.345-2	8.503-2	8.650-2
2	16	3.146-2	2.636-2	2.210-2	1.866-2	1.560-2	1.274-2	1.012-2	7.831-3	5.925-3	4.383-3	3.169-3
2	17	3.667-2	3.346-2	3.043-2	2.796-2	2.608-2	2.473-2	2.388-2	2.349-2	2.347-2	2.369-2	2.382-2
2	18	1.321-2	1.047-2	7.867-3	5.755-3	4.149-3	2.947-3	2.057-3	1.415-3	9.652-4	6.568-4	4.485-4
2	19	1.327-2	1.088-2	8.990-3	7.466-3	6.187-3	5.075-3	4.099-3	3.248-3	2.517-3	1.902-3	1.398-3
2	20	7.326-2	6.992-2	6.711-2	6.493-2	6.338-2	6.247-2	6.221-2	6.255-2	6.335-2	6.440-2	6.497-2
2	21	1.417-2	1.100-2	8.764-3	7.126-3	5.784-3	4.609-3	3.591-3	2.739-3	2.049-3	1.502-3	1.079-3
2	22	5.639-3	4.543-3	3.750-3	3.202-3	2.795-3	2.444-3	2.122-3	1.834-3	1.582-3	1.363-3	1.168-3
2	23	5.824-3	4.279-3	3.132-3	2.287-3	1.661-3	1.190-3	8.376-4	5.781-4	3.923-4	2.627-4	1.740-4
2	24	1.264-2	1.040-2	8.705-3	7.442-3	6.443-3	5.593-3	4.858-3	4.228-3	3.695-3	3.243-3	2.848-3
2	25	6.188-3	6.250-3	6.303-3	6.115-3	5.571-3	4.780-3	3.912-3	3.091-3	2.373-3	1.774-3	1.293-3
2	26	3.985-3	3.805-3	3.381-3	2.865-3	2.341-3	1.855-3	1.435-3	1.088-3	8.102-4	5.914-4	4.229-4
2	27	4.521-4	4.420-4	4.260-4	4.063-4	3.840-4	3.598-4	3.345-4	3.080-4	2.797-4	2.493-4	2.168-4
2	28	5.030-4	4.783-4	4.443-4	4.076-4	3.706-4	3.345-4	2.998-4	2.664-4	2.344-4	2.042-4	1.762-4
2	29	4.585-4	3.882-4	3.050-4	2.293-4	1.680-4	1.213-4	8.691-5	6.205-5	4.421-5	3.159-5	2.321-5
2	30	4.686-4	4.047-4	3.415-4	2.805-4	2.239-4	1.744-4	1.335-4	1.010-4	7.564-5	5.605-5	4.103-5
2	31	7.963-5	6.423-5	5.088-5	3.989-5	3.103-5	2.396-5	1.835-5	1.389-5	1.034-5	7.536-6	5.362-6
2	32	4.855-4	4.307-4	3.798-4	3.333-4	2.924-4	2.586-4	2.324-4	2.134-4	2.010-4	1.942-4	1.904-4
2	33	5.581-4	4.202-4	3.172-4	2.384-4	1.776-4	1.312-4	9.687-5	7.185-5	5.370-5	4.041-5	3.051-5
2	34	1.128-3	8.793-4	6.600-4	4.838-4	3.491-4	2.492-4	1.764-4	1.240-4	8.645-5	5.964-5	4.065-5
2	35	1.681-4	1.783-4	1.681-4	1.423-4	1.108-4	8.122-5	5.721-5	3.925-5	2.646-5	1.761-5	1.160-5
2	36	1.343-1	1.129-1	9.172-2	7.129-2	5.335-2	3.926-2	2.932-2	2.314-2	2.009-2	1.955-2	2.067-2

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
2	37	5.182-3	4.499-3	3.650-3	2.817-3	2.103-3	1.540-3	1.116-3	8.025-4	5.722-4	4.034-4	2.806-4
2	38	3.146-1	3.399-1	3.148-1	2.643-1	2.112-1	1.671-1	1.345-1	1.122-1	9.771-2	8.867-2	8.265-2
2	39	2.802-2	2.519-2	2.061-2	1.570-2	1.141-2	8.066-3	5.625-3	3.894-3	2.683-3	1.838-3	1.250-3
2	40	6.685-2	6.150-2	5.150-2	4.026-2	3.035-2	2.277-2	1.752-2	1.420-2	1.233-2	1.150-2	1.126-2
2	41	1.384-2	1.221-2	1.003-2	7.845-3	5.964-3	4.479-3	3.348-3	2.494-3	1.845-3	1.348-3	9.691-4
2	42	3.232-2	2.882-2	2.588-2	2.393-2	2.318-2	2.383-2	2.623-2	3.083-2	3.806-2	4.822-2	6.018-2
2	43	6.181-3	5.308-3	4.497-3	3.803-3	3.217-3	2.710-3	2.253-3	1.834-3	1.451-3	1.113-3	8.270-4
2	44	8.228-3	7.438-3	6.762-3	6.245-3	5.884-3	5.657-3	5.542-3	5.519-3	5.567-3	5.661-3	5.730-3
2	45	5.320-3	4.714-3	4.116-3	3.577-3	3.095-3	2.652-3	2.232-3	1.830-3	1.454-3	1.115-3	8.267-4
2	46	3.768-2	3.782-2	3.802-2	3.831-2	3.873-2	3.931-2	4.005-2	4.093-2	4.192-2	4.291-2	4.346-2
2	47	1.146-3	1.118-3	1.079-3	1.027-3	9.596-4	8.758-4	7.772-4	6.680-4	5.544-4	4.438-4	3.423-4
2	48	1.296-4	1.298-4	1.302-4	1.307-4	1.316-4	1.330-4	1.348-4	1.366-4	1.380-4	1.383-4	1.370-4
2	49	1.702-4	1.639-4	1.568-4	1.480-4	1.371-4	1.239-4	1.086-4	9.198-5	7.505-5	5.896-5	4.465-5
2	50	4.631-2	4.692-2	4.785-2	4.922-2	5.119-2	5.395-2	5.769-2	6.255-2	6.850-2	7.527-2	8.161-2
2	51	6.018-3	5.882-3	5.691-3	5.423-3	5.058-3	4.587-3	4.021-3	3.393-3	2.749-3	2.140-3	1.604-3
2	52	5.557-3	5.535-3	5.506-3	5.470-3	5.429-3	5.394-3	5.387-3	5.433-3	5.555-3	5.760-3	5.989-3
2	53	5.255-3	5.154-3	4.998-3	4.770-3	4.453-3	4.040-3	3.541-3	2.986-3	2.418-3	1.880-3	1.407-3
3	4	1.653-0	1.719-0	1.636-0	1.439-0	1.197-0	9.650-1	7.659-1	6.073-1	4.881-1	4.027-1	3.426-1
3	5	5.683-1	5.495-1	4.863-1	3.987-1	3.093-1	2.309-1	1.672-1	1.181-1	8.176-2	5.596-2	3.811-2
3	6	1.079-0	1.079-0	1.081-0	1.087-0	1.104-0	1.133-0	1.182-0	1.254-0	1.351-0	1.475-0	1.607-0
3	7	5.997-1	5.543-1	5.113-1	4.757-1	4.495-1	4.324-1	4.245-1	4.268-1	4.399-1	4.644-1	4.960-1
3	8	8.779-1	8.776-1	8.724-1	8.675-1	8.682-1	8.800-1	9.077-1	9.543-1	1.021-0	1.109-0	1.207-0
3	9	1.132-0	1.125-0	1.113-0	1.104-0	1.104-0	1.120-0	1.156-0	1.217-0	1.302-0	1.416-0	1.543-0
3	10	2.017-2	1.946-2	1.850-2	1.716-2	1.560-2	1.410-2	1.288-2	1.207-2	1.170-2	1.173-2	1.201-2
3	11	6.776-1	6.725-1	6.693-1	6.786-1	6.996-1	7.211-1	7.388-1	7.592-1	7.908-1	8.390-1	8.977-1
3	12	1.851-0	1.866-0	1.875-0	1.895-0	1.933-0	1.984-0	2.051-0	2.144-0	2.276-0	2.454-0	2.648-0
3	13	2.264-1	2.043-1	1.863-1	1.790-1	1.765-1	1.666-1	1.461-1	1.206-1	9.631-2	7.657-2	6.174-2
3	14	7.379-2	7.577-2	7.739-2	7.777-2	7.528-2	6.929-2	6.120-2	5.313-2	4.659-2	4.244-2	4.142-2
3	15	1.602-1	1.443-1	1.313-1	1.210-1	1.128-1	1.062-1	1.013-1	9.797-2	9.617-2	9.552-2	9.504-2
3	16	2.351-1	2.240-1	2.145-1	2.070-1	2.014-1	1.976-1	1.960-1	1.967-1	1.995-1	2.036-1	2.069-1
3	17	6.151-2	5.096-2	4.099-2	3.256-2	2.563-2	1.993-2	1.531-2	1.161-2	8.688-3	6.412-3	4.661-3
3	18	6.038-2	5.031-2	4.053-2	3.229-2	2.543-2	1.965-2	1.485-2	1.100-2	8.022-3	5.762-3	4.079-3
3	19	1.161-1	1.095-1	1.041-1	9.991-2	9.676-2	9.463-2	9.352-2	9.336-2	9.396-2	9.481-2	9.427-2
3	20	1.154-1	1.061-1	9.843-2	9.238-2	8.778-2	8.449-2	8.244-2	8.154-2	8.157-2	8.224-2	8.272-2
3	21	9.745-2	8.729-2	7.941-2	7.332-2	6.842-2	6.446-2	6.136-2	5.907-2	5.746-2	5.633-2	5.513-2
3	22	1.093-2	8.032-3	5.929-3	4.466-3	3.419-3	2.608-3	1.955-3	1.434-3	1.032-3	7.289-4	5.063-4
3	23	2.799-2	2.254-2	1.834-2	1.521-2	1.278-2	1.074-2	8.972-3	7.452-3	6.162-3	5.071-3	4.141-3
3	24	3.463-2	2.808-2	2.284-2	1.882-2	1.572-2	1.327-2	1.135-2	9.874-3	8.785-3	8.003-3	7.412-3
3	25	2.209-2	2.183-2	2.129-2	2.015-2	1.817-2	1.558-2	1.282-2	1.020-2	7.897-3	5.959-3	4.385-3
3	26	1.055-2	1.136-2	1.230-2	1.245-2	1.140-2	9.545-3	7.488-3	5.623-3	4.099-3	2.922-3	2.045-3
3	27	1.071-3	1.048-3	1.007-3	9.544-4	8.929-4	8.263-4	7.570-4	6.861-4	6.139-4	5.413-4	4.693-4
3	28	1.157-3	1.113-3	1.050-3	9.786-4	9.043-4	8.305-4	7.588-4	6.884-4	6.176-4	5.452-4	4.703-4
3	29	1.373-3	1.243-3	1.081-3	9.235-4	7.847-4	6.664-4	5.666-4	4.819-4	4.099-4	3.578-4	3.572-4

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
3	30	4.936-3	3.728-3	2.780-3	2.056-3	1.509-3	1.103-3	8.102-4	6.039-4	4.619-4	3.676-4	3.089-4
3	31	4.370-4	3.897-4	3.445-4	3.037-4	2.684-4	2.391-4	2.160-4	1.983-4	1.854-4	1.769-4	1.713-4
3	32	7.165-4	6.318-4	5.510-4	4.734-4	4.020-4	3.404-4	2.900-4	2.505-4	2.203-4	1.980-4	1.813-4
3	33	4.418-3	3.513-3	2.650-3	1.939-3	1.398-3	1.005-3	7.289-4	5.382-4	4.077-4	3.187-4	2.574-4
3	34	3.215-3	2.564-3	1.969-3	1.475-3	1.085-3	7.881-4	5.676-4	4.065-4	2.901-4	2.068-4	1.477-4
3	35	1.234-3	1.282-3	1.193-3	1.000-3	7.720-4	5.607-4	3.911-4	2.661-4	1.788-4	1.199-4	8.099-5
3	36	3.623-1	2.910-1	2.260-1	1.698-1	1.248-1	9.184-2	6.999-2	5.754-2	5.277-2	5.415-2	5.941-2
3	37	4.746-2	3.979-2	3.125-2	2.326-2	1.665-2	1.162-2	7.994-3	5.461-3	3.727-3	2.555-3	1.771-3
3	38	3.573-2	3.117-2	2.508-2	1.893-2	1.369-2	9.663-3	6.735-3	4.666-3	3.219-3	2.210-3	1.507-3
3	39	2.816-1	2.722-1	2.527-1	2.302-1	2.104-1	1.956-1	1.860-1	1.807-1	1.785-1	1.784-1	1.781-1
3	40	1.093-1	1.042-1	8.971-2	7.206-2	5.604-2	4.361-2	3.495-2	2.949-2	2.652-2	2.535-2	2.518-2
3	41	9.030-2	8.615-2	7.869-2	7.038-2	6.310-2	5.755-2	5.373-2	5.133-2	4.997-2	4.933-2	4.880-2
3	42	3.381-2	2.984-2	2.638-2	2.387-2	2.243-2	2.219-2	2.335-2	2.624-2	3.119-2	3.841-2	4.704-2
3	43	7.930-2	7.104-2	6.420-2	5.971-2	5.796-2	5.938-2	6.473-2	7.499-2	9.118-2	1.139-1	1.407-1
3	44	2.687-2	2.362-2	2.082-2	1.859-2	1.688-2	1.560-2	1.464-2	1.393-2	1.342-2	1.308-2	1.275-2
3	45	1.685-2	1.474-2	1.275-2	1.101-2	9.516-3	8.187-3	6.971-3	5.853-3	4.850-3	3.996-3	3.306-3
3	46	1.182-3	1.109-3	1.043-3	9.760-4	9.021-4	8.178-4	7.229-4	6.201-4	5.144-4	4.119-4	3.183-4
3	47	1.112-1	1.115-1	1.120-1	1.127-1	1.138-1	1.154-1	1.174-1	1.199-1	1.226-1	1.253-1	1.269-1
3	48	1.198-3	1.170-3	1.136-3	1.095-3	1.045-3	9.830-4	9.112-4	8.314-4	7.470-4	6.617-4	5.770-4
3	49	5.368-3	5.363-3	5.362-3	5.364-3	5.372-3	5.388-3	5.415-3	5.454-3	5.503-3	5.556-3	5.559-3
3	50	5.459-2	5.501-2	5.567-2	5.666-2	5.811-2	6.021-2	6.317-2	6.715-2	7.220-2	7.811-2	8.370-2
3	51	9.971-2	1.008-1	1.026-1	1.051-1	1.089-1	1.143-1	1.217-1	1.314-1	1.434-1	1.571-1	1.699-1
3	52	1.974-2	1.948-2	1.912-2	1.863-2	1.797-2	1.718-2	1.629-2	1.540-2	1.464-2	1.408-2	1.363-2
3	53	1.641-2	1.611-2	1.565-2	1.498-2	1.406-2	1.286-2	1.143-2	9.846-3	8.243-3	6.746-3	5.438-3
4	5	9.523-1	9.100-1	7.965-1	6.464-1	4.960-1	3.656-1	2.612-1	1.820-1	1.244-1	8.391-2	5.608-2
4	6	6.736-2	5.506-2	4.363-2	3.339-2	2.474-2	1.786-2	1.264-2	8.828-3	6.111-3	4.203-3	2.876-3
4	7	1.270-0	1.133-0	1.022-0	9.417-1	8.905-1	8.614-1	8.511-1	8.608-1	8.923-1	9.471-1	1.016-0
4	8	1.655-0	1.610-0	1.558-0	1.515-0	1.493-0	1.498-0	1.537-0	1.611-0	1.722-0	1.871-0	2.037-0
4	9	3.757-0	3.705-0	3.648-0	3.612-0	3.615-0	3.672-0	3.795-0	3.997-0	4.283-0	4.657-0	5.076-0
4	10	2.816-2	2.625-2	2.418-2	2.146-2	1.817-2	1.469-2	1.142-2	8.603-3	6.325-3	4.552-3	3.212-3
4	11	1.792-1	1.683-1	1.591-1	1.568-1	1.588-1	1.566-1	1.469-1	1.333-1	1.207-1	1.119-1	1.070-1
4	12	8.347-1	8.182-1	8.047-1	8.074-1	8.216-1	8.320-1	8.357-1	8.425-1	8.632-1	9.036-1	9.554-1
4	13	3.839-0	3.778-0	3.738-0	3.747-0	3.804-0	3.885-0	3.987-0	4.139-0	4.366-0	4.685-0	5.043-0
4	14	8.999-2	9.337-2	9.631-2	9.590-2	8.999-2	7.859-2	6.410-2	4.952-2	3.681-2	2.668-2	1.909-2
4	15	7.062-2	5.570-2	4.310-2	3.322-2	2.572-2	2.010-2	1.599-2	1.311-2	1.115-2	9.884-3	9.031-3
4	16	1.670-1	1.487-1	1.313-1	1.165-1	1.045-1	9.500-2	8.786-2	8.288-2	7.975-2	7.800-2	7.673-2
4	17	8.525-2	7.161-2	5.897-2	4.841-2	3.949-2	3.178-2	2.521-2	1.979-2	1.545-2	1.203-2	9.368-3
4	18	4.458-1	4.290-1	4.098-1	3.922-1	3.776-1	3.663-1	3.592-1	3.564-1	3.578-1	3.622-1	3.658-1
4	19	3.935-2	3.004-2	2.289-2	1.751-2	1.342-2	1.026-2	7.795-3	5.888-3	4.415-3	3.277-3	2.400-3
4	20	9.068-2	7.087-2	5.559-2	4.416-2	3.546-2	2.855-2	2.295-2	1.842-2	1.477-2	1.184-2	9.484-3
4	21	2.371-1	2.217-1	2.081-1	1.970-1	1.881-1	1.814-1	1.769-1	1.743-1	1.734-1	1.737-1	1.735-1
4	22	4.279-2	3.949-2	3.668-2	3.446-2	3.281-2	3.167-2	3.103-2	3.084-2	3.101-2	3.144-2	3.180-2
4	23	1.256-1	1.170-1	1.093-1	1.032-1	9.848-2	9.523-2	9.336-2	9.276-2	9.319-2	9.424-2	9.487-2

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
4	24	2.025-1	1.904-1	1.793-1	1.701-1	1.629-1	1.576-1	1.542-1	1.526-1	1.525-1	1.533-1	1.536-1
4	25	4.485-2	4.352-2	4.097-2	3.753-2	3.328-2	2.851-2	2.365-2	1.906-2	1.495-2	1.142-2	8.488-3
4	26	2.006-2	1.968-2	1.836-2	1.643-2	1.412-2	1.171-2	9.411-3	7.373-3	5.639-3	4.208-3	3.062-3
4	27	6.389-4	6.238-4	5.806-4	5.240-4	4.639-4	4.057-4	3.521-4	3.036-4	2.599-4	2.208-4	1.860-4
4	28	1.381-3	1.353-3	1.297-3	1.221-3	1.133-3	1.039-3	9.430-4	8.466-4	7.510-4	6.575-4	5.668-4
4	29	2.882-3	2.825-3	2.707-3	2.555-3	2.384-3	2.204-3	2.021-3	1.837-3	1.650-3	1.482-3	1.405-3
4	30	2.869-3	2.424-3	2.000-3	1.612-3	1.268-3	9.794-4	7.493-4	5.729-4	4.407-4	3.430-4	2.712-4
4	31	4.044-4	3.366-4	2.662-4	2.052-4	1.567-4	1.200-4	9.278-5	7.252-5	5.716-5	4.519-5	3.560-5
4	32	1.300-3	1.144-3	9.744-4	8.157-4	6.775-4	5.639-4	4.743-4	4.050-4	3.517-4	3.107-4	2.784-4
4	33	1.281-2	1.037-2	7.877-3	5.773-3	4.164-3	3.001-3	2.189-3	1.635-3	1.263-3	1.017-3	8.559-4
4	34	1.811-3	1.568-3	1.328-3	1.098-3	8.842-4	6.946-4	5.336-4	4.016-4	2.960-4	2.136-4	1.509-4
4	35	9.785-4	9.878-4	8.988-4	7.442-4	5.718-4	4.165-4	2.927-4	2.008-4	1.355-4	9.040-5	5.969-5
4	36	9.383-1	7.538-1	5.777-1	4.253-1	3.053-1	2.183-1	1.601-1	1.253-1	1.086-1	1.058-1	1.120-1
4	37	2.835-2	2.435-2	1.970-2	1.519-2	1.132-2	8.259-3	5.957-3	4.261-3	3.022-3	2.120-3	1.468-3
4	38	5.635-2	5.067-2	4.234-2	3.341-2	2.564-2	1.975-2	1.573-2	1.327-2	1.201-2	1.160-2	1.166-2
4	39	7.556-2	6.726-2	5.663-2	4.589-2	3.676-2	2.987-2	2.513-2	2.221-2	2.072-2	2.029-2	2.043-2
4	40	9.959-1	1.026-0	9.431-1	8.121-1	6.833-1	5.799-1	5.059-1	4.574-1	4.278-1	4.113-1	4.001-1
4	41	4.128-2	3.786-2	3.229-2	2.627-2	2.095-2	1.674-2	1.359-2	1.134-2	9.795-3	8.787-3	8.135-3
4	42	2.002-2	1.794-2	1.612-2	1.471-2	1.370-2	1.307-2	1.276-2	1.275-2	1.303-2	1.357-2	1.419-2
4	43	5.715-2	5.015-2	4.429-2	4.000-2	3.731-2	3.621-2	3.684-2	3.943-2	4.428-2	5.158-2	6.035-2
4	44	1.640-1	1.445-1	1.296-1	1.200-1	1.161-1	1.183-1	1.279-1	1.468-1	1.770-1	2.198-1	2.703-1
4	45	2.563-2	2.235-2	1.933-2	1.672-2	1.447-2	1.243-2	1.054-2	8.758-3	7.130-3	5.713-3	4.543-3
4	46	1.180-3	8.305-4	5.890-4	4.277-4	3.227-4	2.560-4	2.145-4	1.892-4	1.737-4	1.636-4	1.550-4
4	47	4.302-3	3.111-3	2.293-3	1.741-3	1.367-3	1.109-3	9.242-4	7.863-4	6.780-4	5.892-4	5.125-4
4	48	1.954-1	1.960-1	1.969-1	1.982-1	2.002-1	2.028-1	2.063-1	2.104-1	2.151-1	2.199-1	2.231-1
4	49	2.752-3	2.681-3	2.586-3	2.459-3	2.294-3	2.089-3	1.847-3	1.580-3	1.304-3	1.037-3	7.963-4
4	50	2.325-2	2.319-2	2.311-2	2.303-2	2.296-2	2.294-2	2.306-2	2.341-2	2.408-2	2.507-2	2.608-2
4	51	6.943-2	6.970-2	7.018-2	7.094-2	7.212-2	7.393-2	7.664-2	8.048-2	8.554-2	9.160-2	9.724-2
4	52	2.026-1	2.045-1	2.073-1	2.117-1	2.182-1	2.277-1	2.410-1	2.587-1	2.807-1	3.064-1	3.318-1
4	53	2.658-2	2.605-2	2.524-2	2.406-2	2.243-2	2.033-2	1.781-2	1.501-2	1.215-2	9.445-3	7.068-3
5	6	6.210-2	5.681-2	5.033-2	4.354-2	3.740-2	3.252-2	2.913-2	2.718-2	2.648-2	2.673-2	2.731-2
5	7	2.387-0	2.527-0	2.554-0	2.494-0	2.414-0	2.360-0	2.361-0	2.426-0	2.556-0	2.741-0	2.936-0
5	8	1.225-1	1.174-1	1.040-1	8.684-2	6.956-2	5.430-2	4.191-2	3.246-2	2.557-2	2.077-2	1.747-2
5	9	7.495-1	7.744-1	7.529-1	7.030-1	6.487-1	6.044-1	5.771-1	5.691-1	5.808-1	6.121-1	6.571-1
5	10	1.264-0	1.266-0	1.271-0	1.281-0	1.303-0	1.340-0	1.402-0	1.491-0	1.610-0	1.762-0	1.926-0
5	11	1.651-1	1.410-1	1.180-1	1.015-1	8.938-2	7.707-2	6.341-2	4.994-2	3.828-2	2.916-2	2.246-2
5	12	2.597-1	2.211-1	1.814-1	1.479-1	1.209-1	9.788-2	7.769-2	6.050-2	4.667-2	3.615-2	2.848-2
5	13	3.686-1	3.092-1	2.495-1	1.994-1	1.593-1	1.257-1	9.688-2	7.260-2	5.302-2	3.785-2	2.650-2
5	14	4.982-0	5.039-0	5.131-0	5.280-0	5.457-0	5.642-0	5.863-0	6.167-0	6.590-0	7.153-0	7.805-0
5	15	8.859-2	7.375-2	6.101-2	5.085-2	4.300-2	3.701-2	3.252-2	2.926-2	2.696-2	2.538-2	2.419-2
5	16	9.931-2	8.161-2	6.584-2	5.279-2	4.197-2	3.287-2	2.530-2	1.915-2	1.427-2	1.046-2	7.553-3
5	17	2.264-1	2.158-1	2.067-1	1.998-1	1.948-1	1.915-1	1.903-1	1.913-1	1.943-1	1.985-1	2.016-1
5	18	1.320-1	1.108-1	9.205-2	7.648-2	6.272-2	5.010-2	3.887-2	2.938-2	2.173-2	1.574-2	1.117-2

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
5	19	3.057-2	2.422-2	1.932-2	1.552-2	1.243-2	9.841-3	7.672-3	5.890-3	4.455-3	3.317-3	2.431-3
5	20	6.216-2	5.125-2	4.269-2	3.599-2	3.056-2	2.610-2	2.251-2	1.970-2	1.758-2	1.603-2	1.486-2
5	21	5.917-2	5.071-2	4.335-2	3.681-2	3.070-2	2.498-2	1.981-2	1.536-2	1.165-2	8.639-3	6.262-3
5	22	1.228-2	9.856-3	7.849-3	6.200-3	4.856-3	3.766-3	2.888-3	2.188-3	1.633-3	1.197-3	8.597-4
5	23	3.240-2	2.696-2	2.213-2	1.793-2	1.432-2	1.127-2	8.732-3	6.662-3	4.997-3	3.677-3	2.649-3
5	24	4.839-2	4.144-2	3.498-2	2.912-2	2.387-2	1.925-2	1.531-2	1.203-2	9.364-3	7.241-3	5.577-3
5	25	2.024-1	2.213-1	2.509-1	2.709-1	2.700-1	2.537-1	2.319-1	2.117-1	1.955-1	1.834-1	1.740-1
5	26	1.274-1	1.335-1	1.419-1	1.470-1	1.463-1	1.417-1	1.365-1	1.325-1	1.304-1	1.297-1	1.291-1
5	27	5.591-4	5.367-4	4.757-4	4.009-4	3.273-4	2.615-4	2.055-4	1.589-4	1.207-4	8.976-5	6.532-5
5	28	6.375-4	6.074-4	5.458-4	4.714-4	3.955-4	3.243-4	2.608-4	2.054-4	1.581-4	1.187-4	8.684-5
5	29	1.105-3	1.048-3	9.206-4	7.702-4	6.248-4	4.963-4	3.878-4	2.982-4	2.250-4	1.662-4	1.197-4
5	30	5.334-3	5.170-3	4.983-3	4.727-3	4.398-3	4.054-3	3.774-3	3.607-3	3.575-3	3.694-3	3.968-3
5	31	5.450-4	4.480-4	3.476-4	2.617-4	1.945-4	1.442-4	1.070-4	7.953-5	5.902-5	4.364-5	3.215-5
5	32	1.256-3	1.040-3	8.181-4	6.276-4	4.764-4	3.605-4	2.723-4	2.048-4	1.525-4	1.118-4	8.031-5
5	33	1.909-2	1.543-2	1.168-2	8.537-3	6.159-3	4.458-3	3.292-3	2.523-3	2.042-3	1.765-3	1.621-3
5	34	1.459-2	1.262-2	1.060-2	8.860-3	7.491-3	6.456-3	5.690-3	5.126-3	4.709-3	4.408-3	4.193-3
5	35	3.353-3	3.840-3	3.950-3	3.699-3	3.268-3	2.839-3	2.522-3	2.359-3	2.353-3	2.491-3	2.717-3
5	36	1.092-1	9.468-2	7.693-2	5.890-2	4.305-2	3.047-2	2.114-2	1.453-2	9.956-3	6.864-3	4.804-3
5	37	1.499-1	1.375-1	1.185-1	9.655-2	7.600-2	5.972-2	4.876-2	4.305-2	4.204-2	4.504-2	5.054-2
5	38	8.118-3	7.317-3	6.167-3	4.929-3	3.813-3	2.901-3	2.189-3	1.639-3	1.214-3	8.868-4	6.358-4
5	39	7.743-2	6.996-2	6.037-2	5.076-2	4.267-2	3.660-2	3.244-2	2.983-2	2.836-2	2.769-2	2.734-2
5	40	3.294-2	2.911-2	2.432-2	1.952-2	1.533-2	1.191-2	9.213-3	7.080-3	5.387-3	4.046-3	2.996-3
5	41	2.285-1	2.141-1	1.912-1	1.671-1	1.467-1	1.319-1	1.223-1	1.169-1	1.146-1	1.143-1	1.143-1
5	42	9.020-3	7.826-3	6.702-3	5.724-3	4.882-3	4.141-3	3.471-3	2.864-3	2.326-3	1.872-3	1.508-3
5	43	1.760-2	1.495-2	1.252-2	1.048-2	8.790-3	7.372-3	6.140-3	5.052-3	4.097-3	3.285-3	2.619-3
5	44	2.185-2	1.863-2	1.572-2	1.325-2	1.118-2	9.383-3	7.766-3	6.288-3	4.953-3	3.785-3	2.809-3
5	45	1.261-1	1.125-1	9.834-2	8.717-2	8.031-2	7.826-2	8.144-2	9.034-2	1.055-1	1.270-1	1.521-1
5	46	1.086-3	8.951-4	7.476-4	6.341-4	5.432-4	4.654-4	3.946-4	3.279-4	2.653-4	2.079-4	1.575-4
5	47	1.893-2	1.780-2	1.699-2	1.646-2	1.615-2	1.599-2	1.596-2	1.603-2	1.615-2	1.631-2	1.634-2
5	48	4.759-3	4.220-3	3.800-3	3.444-3	3.110-3	2.771-3	2.416-3	2.049-3	1.680-3	1.330-3	1.016-3
5	49	2.014-1	2.022-1	2.033-1	2.050-1	2.072-1	2.103-1	2.142-1	2.188-1	2.239-1	2.292-1	2.325-1
5	50	1.376-2	1.331-2	1.278-2	1.212-2	1.127-2	1.023-2	9.004-3	7.668-3	6.321-3	5.065-3	3.969-3
5	51	1.889-2	1.826-2	1.754-2	1.664-2	1.550-2	1.408-2	1.242-2	1.061-2	8.788-3	7.094-3	5.616-3
5	52	2.292-2	2.213-2	2.121-2	2.006-2	1.860-2	1.678-2	1.465-2	1.232-2	9.964-3	7.753-3	5.817-3
5	53	1.453-1	1.474-1	1.504-1	1.548-1	1.611-1	1.700-1	1.821-1	1.977-1	2.167-1	2.379-1	2.564-1
6	7	1.391-1	1.354-1	1.285-1	1.169-1	1.026-1	8.847-2	7.616-2	6.628-2	5.870-2	5.301-2	4.856-2
6	8	2.248-1	2.497-1	2.450-1	2.165-1	1.763-1	1.356-1	1.005-1	7.273-2	5.182-2	3.643-2	2.530-2
6	9	1.207-1	1.247-1	1.218-1	1.128-1	1.007-1	8.880-2	7.879-2	7.122-2	6.590-2	6.233-2	5.968-2
6	10	2.297-2	2.396-2	2.243-2	1.899-2	1.481-2	1.085-2	7.618-3	5.195-3	3.476-3	2.295-3	1.502-3
6	11	1.310-1	1.282-1	1.150-1	9.445-2	7.208-2	5.206-2	3.621-2	2.458-2	1.644-2	1.089-2	7.174-3
6	12	1.807-1	1.787-1	1.611-1	1.327-1	1.012-1	7.312-2	5.094-2	3.474-2	2.347-2	1.584-2	1.074-2
6	13	8.433-2	7.849-2	6.626-2	5.155-2	3.768-2	2.631-2	1.780-2	1.178-2	7.684-3	4.963-3	3.187-3
6	14	8.043-2	6.912-2	5.594-2	4.305-2	3.200-2	2.334-2	1.695-2	1.242-2	9.290-3	7.138-3	5.644-3

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
6	15	1.271-1	9.640-2	7.131-2	5.224-2	3.828-2	2.821-2	2.089-2	1.549-2	1.141-2	8.302-3	5.936-3
6	16	7.131-2	5.812-2	4.679-2	3.800-2	3.163-2	2.727-2	2.448-2	2.292-2	2.232-2	2.245-2	2.292-2
6	17	7.958-2	6.298-2	4.784-2	3.562-2	2.639-2	1.960-2	1.460-2	1.087-2	8.039-3	5.863-3	4.201-3
6	18	3.544-2	2.811-2	2.118-2	1.552-2	1.124-2	8.128-3	5.891-3	4.273-3	3.088-3	2.211-3	1.561-3
6	19	1.667-0	1.663-0	1.665-0	1.678-0	1.707-0	1.756-0	1.832-0	1.943-0	2.091-0	2.279-0	2.483-0
6	20	5.563-2	4.452-2	3.514-2	2.768-2	2.189-2	1.737-2	1.374-2	1.076-2	8.278-3	6.221-3	4.557-3
6	21	2.537-2	2.078-2	1.715-2	1.439-2	1.233-2	1.080-2	9.676-3	8.862-3	8.298-3	7.938-3	7.686-3
6	22	5.035-3	4.127-3	3.239-3	2.485-3	1.893-3	1.440-3	1.095-3	8.286-4	6.197-4	4.557-4	3.283-4
6	23	1.577-2	1.274-2	1.001-2	7.711-3	5.883-3	4.474-3	3.405-3	2.597-3	1.986-3	1.525-3	1.181-3
6	24	2.109-2	1.640-2	1.244-2	9.333-3	6.995-3	5.265-3	3.978-3	3.007-3	2.260-3	1.680-3	1.231-3
6	25	8.081-3	7.559-3	7.026-3	6.445-3	5.804-3	5.113-3	4.391-3	3.666-3	2.969-3	2.333-3	1.784-3
6	26	1.194-2	1.188-2	1.182-2	1.175-2	1.172-2	1.176-2	1.193-2	1.229-2	1.289-2	1.374-2	1.471-2
6	27	6.204-3	6.100-3	5.958-3	5.767-3	5.515-3	5.200-3	4.824-3	4.396-3	3.929-3	3.443-3	2.960-3
6	28	3.269-4	3.083-4	2.896-4	2.702-4	2.492-4	2.258-4	2.001-4	1.730-4	1.457-4	1.195-4	9.551-5
6	29	1.771-4	1.605-4	1.453-4	1.318-4	1.195-4	1.077-4	9.621-5	8.494-5	7.421-5	6.420-5	5.446-5
6	30	7.537-4	7.024-4	6.517-4	6.025-4	5.536-4	5.034-4	4.514-4	3.974-4	3.424-4	2.881-4	2.365-4
6	31	1.569-3	1.558-3	1.547-3	1.534-3	1.515-3	1.484-3	1.441-3	1.383-3	1.312-3	1.226-3	1.123-3
6	32	1.787-4	1.683-4	1.564-4	1.436-4	1.296-4	1.144-4	9.801-5	8.109-5	6.454-5	4.937-5	3.636-5
6	33	4.045-4	3.895-4	3.730-4	3.545-4	3.334-4	3.093-4	2.822-4	2.527-4	2.216-4	1.903-4	1.599-4
6	34	2.658-4	2.527-4	2.375-4	2.197-4	1.990-4	1.755-4	1.503-4	1.250-4	1.014-4	8.071-5	6.379-5
6	35	1.519-4	1.574-4	1.567-4	1.512-4	1.431-4	1.341-4	1.253-4	1.169-4	1.089-4	1.011-4	9.292-5
6	36	7.037-3	6.493-3	5.579-3	4.431-3	3.291-3	2.328-3	1.596-3	1.075-3	7.205-4	4.839-4	3.272-4
6	37	1.390-3	1.253-3	1.059-3	8.312-4	6.118-4	4.294-4	2.920-4	1.948-4	1.288-4	8.520-5	5.674-5
6	38	6.871-5	5.862-5	4.689-5	3.572-5	2.636-5	1.910-5	1.368-5	9.709-6	6.816-6	4.723-6	3.226-6
6	39	8.727-4	8.083-4	7.274-4	6.454-4	5.734-4	5.143-4	4.654-4	4.224-4	3.818-4	3.413-4	3.000-4
6	40	3.648-4	3.347-4	2.790-4	2.169-4	1.617-4	1.184-4	8.650-5	6.374-5	4.762-5	3.607-5	2.757-5
6	41	3.755-4	3.438-4	2.938-4	2.397-4	1.916-4	1.530-4	1.237-4	1.021-4	8.655-5	7.567-5	6.811-5
6	42	1.191-4	1.064-4	9.527-5	8.594-5	7.785-5	7.044-5	6.325-5	5.611-5	4.905-5	4.226-5	3.588-5
6	43	3.492-4	3.246-4	3.057-4	2.937-4	2.885-4	2.893-4	2.949-4	3.039-4	3.149-4	3.258-4	3.325-4
6	44	1.360-4	1.208-4	1.070-4	9.488-5	8.420-5	7.429-5	6.465-5	5.512-5	4.579-5	3.698-5	2.903-5
6	45	2.220-4	1.957-4	1.679-4	1.429-4	1.216-4	1.034-4	8.723-5	7.247-5	5.896-5	4.690-5	3.653-5
6	46	7.983-4	7.789-4	7.530-4	7.175-4	6.695-4	6.078-4	5.336-4	4.510-4	3.663-4	2.859-4	2.150-4
6	47	7.868-3	8.088-3	8.409-3	8.875-3	9.589-3	1.074-2	1.260-2	1.549-2	1.967-2	2.531-2	3.181-2
6	48	4.713-4	4.608-4	4.464-4	4.262-4	3.988-4	3.634-4	3.207-4	2.729-4	2.236-4	1.764-4	1.342-4
6	49	7.566-4	7.571-4	7.566-4	7.558-4	7.574-4	7.678-4	7.979-4	8.605-4	9.688-4	1.131-3	1.327-3
6	50	8.541-5	8.543-5	8.541-5	8.534-5	8.512-5	8.454-5	8.327-5	8.093-5	7.721-5	7.201-5	6.530-5
6	51	1.844-4	1.829-4	1.817-4	1.807-4	1.795-4	1.777-4	1.748-4	1.701-4	1.632-4	1.537-4	1.415-4
6	52	9.324-5	9.020-5	8.638-5	8.146-5	7.520-5	6.759-5	5.893-5	4.980-5	4.087-5	3.273-5	2.569-5
6	53	1.562-4	1.555-4	1.543-4	1.526-4	1.501-4	1.469-4	1.431-4	1.388-4	1.343-4	1.299-4	1.248-4
7	8	3.997-1	4.234-1	4.096-1	3.628-1	2.998-1	2.367-1	1.826-1	1.402-1	1.085-1	8.544-2	6.875-2
7	9	1.896-0	2.112-0	2.064-0	1.804-0	1.454-0	1.113-0	8.329-1	6.224-1	4.733-1	3.712-1	3.019-1
7	10	2.401-1	2.422-1	2.384-1	2.300-1	2.198-1	2.101-1	2.023-1	1.967-1	1.930-1	1.908-1	1.887-1
7	11	5.246-1	4.875-1	4.227-1	3.413-1	2.596-1	1.885-1	1.320-1	9.002-2	6.017-2	3.966-2	2.588-2

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
7	12	5.622-1	5.377-1	4.733-1	3.862-1	2.966-1	2.175-1	1.539-1	1.060-1	7.163-2	4.770-2	3.145-2
7	13	7.902-1	7.185-1	6.110-1	4.888-1	3.721-1	2.723-1	1.931-1	1.335-1	9.064-2	6.070-2	4.025-2
7	14	2.161-0	2.079-0	1.851-0	1.532-0	1.197-0	8.945-1	6.452-1	4.538-1	3.146-1	2.170-1	1.497-1
7	15	6.094-1	5.671-1	5.263-1	4.927-1	4.691-1	4.564-1	4.549-1	4.643-1	4.845-1	5.153-1	5.515-1
7	16	3.982-1	3.406-1	2.797-1	2.258-1	1.824-1	1.494-1	1.250-1	1.073-1	9.491-2	8.680-2	8.176-2
7	17	2.460-0	2.424-0	2.395-0	2.385-0	2.400-0	2.449-0	2.542-0	2.683-0	2.877-0	3.126-0	3.394-0
7	18	3.561-1	3.111-1	2.548-1	2.011-1	1.560-1	1.204-1	9.300-2	7.186-2	5.553-2	4.293-2	3.328-2
7	19	8.313-2	6.763-2	5.444-2	4.385-2	3.557-2	2.915-2	2.415-2	2.024-2	1.720-2	1.489-2	1.317-2
7	20	1.812-1	1.494-1	1.217-1	9.936-2	8.209-2	6.908-2	5.945-2	5.247-2	4.766-2	4.470-2	4.311-2
7	21	1.183-0	1.135-0	1.097-0	1.074-0	1.067-0	1.079-0	1.111-0	1.166-0	1.246-0	1.351-0	1.466-0
7	22	2.266-2	1.804-2	1.404-2	1.081-2	8.307-3	6.390-3	4.912-3	3.754-3	2.835-3	2.103-3	1.527-3
7	23	1.415-1	1.333-1	1.252-1	1.186-1	1.140-1	1.117-1	1.118-1	1.144-1	1.197-1	1.276-1	1.369-1
7	24	3.836-1	3.679-1	3.531-1	3.418-1	3.355-1	3.351-1	3.414-1	3.550-1	3.763-1	4.053-1	4.373-1
7	25	1.910-0	1.899-0	1.898-0	1.905-0	1.924-0	1.963-0	2.031-0	2.137-0	2.288-0	2.487-0	2.711-0
7	26	5.346-2	5.400-2	5.413-2	5.323-2	5.126-2	4.885-2	4.678-2	4.557-2	4.545-2	4.638-2	4.779-2
7	27	3.866-3	3.563-3	3.300-3	3.058-3	2.815-3	2.556-3	2.271-3	1.962-3	1.642-3	1.331-3	1.045-3
7	28	5.877-3	5.449-3	5.074-3	4.722-3	4.363-3	3.973-3	3.539-3	3.065-3	2.571-3	2.085-3	1.636-3
7	29	1.084-2	1.025-2	9.709-3	9.177-3	8.615-3	7.993-3	7.295-3	6.529-3	5.734-3	5.104-3	5.211-3
7	30	4.508-2	4.326-2	4.152-2	4.024-2	3.929-2	3.854-2	3.805-2	3.785-2	3.795-2	3.825-2	3.851-2
7	31	7.466-4	7.123-4	6.734-4	6.313-4	5.849-4	5.328-4	4.742-4	4.102-4	3.435-4	2.780-4	2.177-4
7	32	2.042-3	1.955-3	1.856-3	1.747-3	1.622-3	1.477-3	1.312-3	1.131-3	9.414-4	7.550-4	5.840-4
7	33	1.180-2	1.124-2	1.073-2	1.035-2	1.003-2	9.746-3	9.502-3	9.331-3	9.238-3	9.206-3	9.148-3
7	34	1.150-1	1.153-1	1.159-1	1.168-1	1.181-1	1.201-1	1.229-1	1.265-1	1.308-1	1.358-1	1.416-1
7	35	3.405-3	3.500-3	3.562-3	3.576-3	3.548-3	3.512-3	3.503-3	3.538-3	3.613-3	3.715-3	3.796-3
7	36	5.975-2	5.207-2	4.247-2	3.251-2	2.364-2	1.658-2	1.135-2	7.659-3	5.123-3	3.406-3	2.254-3
7	37	5.512-2	5.316-2	4.710-2	3.850-2	2.967-2	2.217-2	1.656-2	1.272-2	1.030-2	8.891-3	8.103-3
7	38	4.281-3	3.744-3	3.081-3	2.421-3	1.850-3	1.393-3	1.041-3	7.703-4	5.634-4	4.056-4	2.865-4
7	39	4.316-2	3.714-2	3.038-2	2.397-2	1.872-2	1.492-2	1.253-2	1.135-2	1.119-2	1.185-2	1.298-2
7	40	2.033-2	1.795-2	1.486-2	1.174-2	9.018-3	6.839-3	5.155-3	3.863-3	2.870-3	2.107-3	1.524-3
7	41	1.175-1	1.072-1	9.017-2	7.155-2	5.541-2	4.351-2	3.601-2	3.244-2	3.219-2	3.461-2	3.855-2
7	42	7.050-3	6.036-3	5.109-3	4.324-3	3.665-3	3.094-3	2.579-3	2.107-3	1.676-3	1.296-3	9.751-4
7	43	1.890-2	1.577-2	1.300-2	1.078-2	9.052-3	7.700-3	6.603-3	5.685-3	4.910-3	4.264-3	3.725-3
7	44	1.312-2	1.134-2	9.734-3	8.365-3	7.190-3	6.141-3	5.164-3	4.242-3	3.388-3	2.628-3	1.982-3
7	45	2.042-1	1.902-1	1.758-1	1.639-1	1.554-1	1.501-1	1.474-1	1.466-1	1.473-1	1.488-1	1.496-1
7	46	2.055-3	1.959-3	1.862-3	1.754-3	1.624-3	1.467-3	1.283-3	1.081-3	8.765-4	6.831-4	5.130-4
7	47	1.343-2	1.245-2	1.192-2	1.172-2	1.186-2	1.242-2	1.364-2	1.576-2	1.903-2	2.361-2	2.907-2
7	48	8.289-3	8.324-3	8.387-3	8.493-3	8.693-3	9.096-3	9.872-3	1.122-2	1.333-2	1.624-2	1.933-2
7	49	1.392-2	1.427-2	1.481-2	1.564-2	1.698-2	1.919-2	2.281-2	2.840-2	3.646-2	4.727-2	5.971-2
7	50	5.746-3	5.448-3	5.147-3	4.809-3	4.406-3	3.926-3	3.378-3	2.795-3	2.220-3	1.694-3	1.246-3
7	51	7.978-3	7.561-3	7.145-3	6.680-3	6.127-3	5.471-3	4.723-3	3.928-3	3.144-3	2.429-3	1.822-3
7	52	1.003-2	9.500-3	8.971-3	8.383-3	7.686-3	6.859-3	5.918-3	4.914-3	3.921-3	3.010-3	2.232-3
7	53	1.477-1	1.499-1	1.531-1	1.577-1	1.646-1	1.752-1	1.909-1	2.136-1	2.446-1	2.846-1	3.291-1
8	9	9.908-1	1.039-0	9.800-1	8.528-1	7.027-1	5.631-1	4.495-1	3.642-1	3.031-1	2.605-1	2.302-1

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
8	10	4.794-2	5.060-2	4.809-2	4.141-2	3.288-2	2.459-2	1.766-2	1.234-2	8.461-3	5.720-3	3.823-3
8	11	4.973-1	5.393-1	5.159-1	4.394-1	3.413-1	2.482-1	1.728-1	1.170-1	7.796-2	5.156-2	3.404-2
8	12	4.852-1	4.764-1	4.240-1	3.447-1	2.603-1	1.862-1	1.285-1	8.661-2	5.756-2	3.794-2	2.490-2
8	13	6.446-1	6.334-1	5.639-1	4.572-1	3.439-1	2.449-1	1.681-1	1.128-1	7.468-2	4.917-2	3.235-2
8	14	2.242-1	1.949-1	1.590-1	1.223-1	8.984-2	6.382-2	4.434-2	3.036-2	2.059-2	1.386-2	9.263-3
8	15	2.713-1	2.112-1	1.609-1	1.223-1	9.425-2	7.464-2	6.135-2	5.266-2	4.732-2	4.445-2	4.312-2
8	16	2.321-1	1.811-1	1.368-1	1.018-1	7.552-2	5.637-2	4.243-2	3.220-2	2.462-2	1.897-2	1.477-2
8	17	3.168-1	2.677-1	2.239-1	1.895-1	1.647-1	1.481-1	1.383-1	1.338-1	1.339-1	1.379-1	1.434-1
8	18	1.847-1	1.461-1	1.131-1	8.745-2	6.875-2	5.560-2	4.661-2	4.067-2	3.698-2	3.497-2	3.396-2
8	19	4.047-1	3.785-1	3.583-1	3.447-1	3.376-1	3.370-1	3.432-1	3.568-1	3.780-1	4.068-1	4.384-1
8	20	2.730-0	2.723-0	2.724-0	2.743-0	2.785-0	2.863-0	2.985-0	3.163-0	3.402-0	3.706-0	4.037-0
8	21	1.227-1	9.988-2	8.097-2	6.621-2	5.496-2	4.637-2	3.971-2	3.447-2	3.037-2	2.723-2	2.479-2
8	22	4.254-1	4.301-1	4.344-1	4.398-1	4.483-1	4.616-1	4.819-1	5.109-1	5.497-1	5.987-1	6.506-1
8	23	9.684-1	9.693-1	9.712-1	9.779-1	9.929-1	1.020-0	1.063-0	1.125-0	1.210-0	1.317-0	1.432-0
8	24	6.262-1	6.124-1	6.011-1	5.953-1	5.966-1	6.067-1	6.273-1	6.602-1	7.064-1	7.663-1	8.311-1
8	25	2.615-2	2.472-2	2.313-2	2.130-2	1.922-2	1.692-2	1.450-2	1.205-2	9.681-3	7.517-3	5.648-3
8	26	1.348-2	1.280-2	1.203-2	1.116-2	1.022-2	9.239-3	8.249-3	7.302-3	6.454-3	5.753-3	5.206-3
8	27	6.750-3	6.607-3	6.430-3	6.203-3	5.914-3	5.557-3	5.139-3	4.668-3	4.159-3	3.635-3	3.116-3
8	28	1.280-2	1.257-2	1.227-2	1.187-2	1.135-2	1.070-2	9.936-3	9.060-3	8.103-3	7.112-3	6.132-3
8	29	8.185-4	7.601-4	7.056-4	6.531-4	5.995-4	5.427-4	4.825-4	4.204-4	3.591-4	3.056-4	2.760-4
8	30	1.275-3	1.165-3	1.051-3	9.423-4	8.387-4	7.388-4	6.414-4	5.467-4	4.558-4	3.715-4	2.979-4
8	31	1.730-4	1.642-4	1.536-4	1.416-4	1.282-4	1.133-4	9.722-5	8.047-5	6.406-5	4.901-5	3.611-5
8	32	5.536-3	5.487-3	5.433-3	5.366-3	5.268-3	5.127-3	4.939-3	4.704-3	4.423-3	4.095-3	3.721-3
8	33	1.511-3	1.473-3	1.424-3	1.358-3	1.275-3	1.174-3	1.061-3	9.378-4	8.097-4	6.820-4	5.602-4
8	34	7.810-4	7.449-4	7.002-4	6.460-4	5.817-4	5.080-4	4.284-4	3.480-4	2.722-4	2.052-4	1.495-4
8	35	1.254-4	1.379-4	1.375-4	1.264-4	1.095-4	9.096-5	7.308-5	5.697-5	4.308-5	3.158-5	2.247-5
8	36	2.349-2	2.163-2	1.854-2	1.471-2	1.092-2	7.722-3	5.291-3	3.563-3	2.385-3	1.599-3	1.079-3
8	37	2.154-3	1.955-3	1.658-3	1.304-3	9.610-4	6.737-4	4.562-4	3.017-4	1.965-4	1.267-4	8.111-5
8	38	1.724-3	1.746-3	1.581-3	1.326-3	1.072-3	8.596-4	6.956-4	5.716-4	4.758-4	3.988-4	3.335-4
8	39	1.298-3	1.226-3	1.067-3	8.788-4	7.050-4	5.642-4	4.566-4	3.749-4	3.114-4	2.598-4	2.161-4
8	40	2.267-3	2.192-3	1.941-3	1.629-3	1.339-3	1.103-3	9.223-4	7.830-4	6.716-4	5.773-4	4.931-4
8	41	7.494-4	6.971-4	6.043-4	4.987-4	4.013-4	3.203-4	2.558-4	2.049-4	1.647-4	1.327-4	1.073-4
8	42	7.327-4	6.691-4	6.192-4	5.852-4	5.658-4	5.586-4	5.608-4	5.698-4	5.830-4	5.971-4	6.045-4
8	43	7.111-4	5.951-4	4.977-4	4.227-4	3.666-4	3.243-4	2.911-4	2.637-4	2.402-4	2.197-4	2.006-4
8	44	6.833-4	6.142-4	5.576-4	5.153-4	4.856-4	4.654-4	4.520-4	4.428-4	4.359-4	4.295-4	4.192-4
8	45	8.169-4	6.650-4	5.386-4	4.400-4	3.638-4	3.029-4	2.514-4	2.061-4	1.655-4	1.297-4	9.918-5
8	46	8.006-3	8.232-3	8.581-3	9.112-3	9.945-3	1.130-2	1.349-2	1.683-2	2.162-2	2.799-2	3.529-2
8	47	8.941-3	8.918-3	8.988-3	9.162-3	9.502-3	1.014-2	1.129-2	1.318-2	1.603-2	1.998-2	2.465-2
8	48	1.110-2	1.138-2	1.179-2	1.238-2	1.328-2	1.472-2	1.708-2	2.075-2	2.610-2	3.319-2	4.082-2
8	49	2.856-3	2.821-3	2.767-3	2.691-3	2.591-3	2.476-3	2.368-3	2.300-3	2.305-3	2.414-3	2.600-3
8	50	3.516-4	3.495-4	3.477-4	3.461-4	3.442-4	3.413-4	3.364-4	3.281-4	3.156-4	2.981-4	2.752-4
8	51	2.644-4	2.619-4	2.588-4	2.549-4	2.499-4	2.434-4	2.347-4	2.236-4	2.096-4	1.928-4	1.732-4
8	52	3.293-4	3.251-4	3.208-4	3.159-4	3.099-4	3.021-4	2.920-4	2.790-4	2.628-4	2.436-4	2.213-4

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
8	53	1.986-4	1.944-4	1.880-4	1.788-4	1.662-4	1.502-4	1.312-4	1.103-4	8.906-5	6.916-5	5.174-5
9	10	1.260-1	1.329-1	1.305-1	1.204-1	1.068-1	9.336-2	8.200-2	7.333-2	6.712-2	6.286-2	5.964-2
9	11	3.684-1	3.719-1	3.367-1	2.766-1	2.105-1	1.515-1	1.049-1	7.068-2	4.684-2	3.071-2	2.003-2
9	12	8.898-1	9.232-1	8.530-1	7.107-1	5.458-1	3.949-1	2.743-1	1.855-1	1.233-1	8.125-2	5.331-2
9	13	1.211-0	1.216-0	1.100-0	9.072-1	6.947-1	5.039-1	3.521-1	2.399-1	1.611-1	1.073-1	7.123-2
9	14	7.428-1	6.921-1	6.020-1	4.901-1	3.781-1	2.795-1	1.997-1	1.391-1	9.522-2	6.459-2	4.375-2
9	15	2.761-1	2.146-1	1.622-1	1.215-1	9.200-2	7.187-2	5.890-2	5.119-2	4.730-2	4.618-2	4.672-2
9	16	4.260-1	3.368-1	2.609-1	2.018-1	1.588-1	1.289-1	1.092-1	9.710-2	9.062-2	8.843-2	8.879-2
9	17	5.502-1	5.023-1	4.588-1	4.249-1	4.016-1	3.889-1	3.864-1	3.936-1	4.100-1	4.345-1	4.589-1
9	18	3.947-1	3.261-1	2.607-1	2.060-1	1.634-1	1.313-1	1.075-1	8.990-2	7.707-2	6.799-2	6.157-2
9	19	1.089-1	8.909-2	7.331-2	6.155-2	5.333-2	4.799-2	4.499-2	4.387-2	4.430-2	4.599-2	4.818-2
9	20	3.507-1	3.119-1	2.792-1	2.543-1	2.371-1	2.273-1	2.241-1	2.271-1	2.359-1	2.502-1	2.673-1
9	21	4.317-0	4.300-0	4.292-0	4.310-0	4.367-0	4.480-0	4.665-0	4.935-0	5.300-0	5.767-0	6.278-0
9	22	3.851-2	3.150-2	2.472-2	1.901-2	1.451-2	1.107-2	8.430-3	6.379-3	4.767-3	3.503-3	2.524-3
9	23	5.847-1	5.731-1	5.616-1	5.542-1	5.530-1	5.600-1	5.769-1	6.052-1	6.458-1	6.986-1	7.544-1
9	24	2.288-0	2.283-0	2.280-0	2.288-0	2.316-0	2.372-0	2.467-0	2.607-0	2.798-0	3.042-0	3.306-0
9	25	5.571-1	5.522-1	5.498-1	5.494-1	5.518-1	5.592-1	5.745-1	6.000-1	6.375-1	6.874-1	7.411-1
9	26	3.100-2	3.008-2	2.895-2	2.740-2	2.541-2	2.319-2	2.099-2	1.902-2	1.741-2	1.623-2	1.539-2
9	27	2.084-3	1.971-3	1.866-3	1.762-3	1.652-3	1.531-3	1.398-3	1.254-3	1.105-3	9.583-4	8.197-4
9	28	7.253-3	7.005-3	6.746-3	6.456-3	6.116-3	5.714-3	5.251-3	4.736-3	4.186-3	3.629-3	3.088-3
9	29	2.205-2	2.153-2	2.091-2	2.014-2	1.918-2	1.801-2	1.661-2	1.502-2	1.331-2	1.184-2	1.165-2
9	30	1.100-2	1.038-2	9.756-3	9.252-3	8.869-3	8.591-3	8.421-3	8.360-3	8.393-3	8.503-3	8.648-3
9	31	7.575-4	7.373-4	7.122-4	6.813-4	6.435-4	5.985-4	5.463-4	4.879-4	4.251-4	3.610-4	2.985-4
9	32	1.974-3	1.930-3	1.871-3	1.790-3	1.684-3	1.555-3	1.405-3	1.240-3	1.065-3	8.911-4	7.252-4
9	33	1.277-2	1.253-2	1.227-2	1.201-2	1.170-2	1.133-2	1.089-2	1.039-2	9.841-3	9.242-3	8.569-3
9	34	2.712-2	2.715-2	2.721-2	2.734-2	2.757-2	2.794-2	2.848-2	2.921-2	3.010-2	3.117-2	3.242-2
9	35	1.053-3	1.097-3	1.113-3	1.102-3	1.074-3	1.044-3	1.024-3	1.019-3	1.029-3	1.050-3	1.069-3
9	36	3.567-2	3.361-2	2.929-2	2.354-2	1.766-2	1.260-2	8.706-3	5.908-3	3.981-3	2.682-3	1.813-3
9	37	1.609-2	1.511-2	1.310-2	1.053-2	8.000-3	5.886-3	4.310-3	3.228-3	2.534-3	2.116-3	1.870-3
9	38	1.282-3	1.153-3	9.589-4	7.498-4	5.637-4	4.150-4	3.027-4	2.199-4	1.592-4	1.147-4	8.206-5
9	39	1.078-2	9.333-3	7.651-3	6.018-3	4.654-3	3.639-3	2.964-3	2.584-3	2.451-3	2.523-3	2.723-3
9	40	8.354-3	7.645-3	6.574-3	5.432-3	4.415-3	3.588-3	2.939-3	2.425-3	2.008-3	1.660-3	1.362-3
9	41	2.682-2	2.452-2	2.067-2	1.643-2	1.273-2	9.980-3	8.205-3	7.291-3	7.086-3	7.440-3	8.110-3
9	42	1.815-3	1.511-3	1.241-3	1.022-3	8.507-4	7.146-4	6.032-4	5.092-4	4.293-4	3.620-4	3.055-4
9	43	6.437-3	5.343-3	4.398-3	3.662-3	3.116-3	2.714-3	2.414-3	2.186-3	2.012-3	1.877-3	1.764-3
9	44	4.844-3	4.238-3	3.702-3	3.255-3	2.881-3	2.558-3	2.264-3	1.993-3	1.743-3	1.519-3	1.319-3
9	45	4.604-2	4.200-2	3.788-2	3.448-2	3.201-2	3.039-2	2.943-2	2.899-2	2.890-2	2.905-2	2.911-2
9	46	7.177-4	5.348-4	4.054-4	3.149-4	2.502-4	2.018-4	1.633-4	1.311-4	1.036-4	8.009-5	6.044-5
9	47	7.543-3	6.923-3	6.645-3	6.659-3	6.981-3	7.706-3	9.001-3	1.106-2	1.404-2	1.805-2	2.268-2
9	48	3.157-2	3.229-2	3.331-2	3.478-2	3.708-2	4.084-2	4.706-2	5.680-2	7.101-2	9.003-2	1.112-1
9	49	1.192-2	1.203-2	1.219-2	1.242-2	1.283-2	1.361-2	1.503-2	1.739-2	2.098-2	2.599-2	3.188-2
9	50	1.386-3	1.317-3	1.249-3	1.174-3	1.086-3	9.819-4	8.627-4	7.348-4	6.067-4	4.871-4	3.819-4
9	51	2.271-3	2.169-3	2.067-3	1.954-3	1.820-3	1.661-3	1.478-3	1.282-3	1.086-3	9.003-4	7.345-4

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
9	52	3.284-3	3.143-3	2.999-3	2.837-3	2.643-3	2.411-3	2.145-3	1.858-3	1.567-3	1.290-3	1.038-3
9	53	3.595-2	3.648-2	3.723-2	3.831-2	3.993-2	4.239-2	4.608-2	5.140-2	5.866-2	6.800-2	7.825-2
10	11	2.238-2	2.261-2	2.059-2	1.711-2	1.321-2	9.651-3	6.776-3	4.629-3	3.104-3	2.055-3	1.348-3
10	12	3.855-2	3.927-2	3.569-2	2.951-2	2.270-2	1.657-2	1.164-2	7.973-3	5.374-3	3.591-3	2.393-3
10	13	4.585-2	4.561-2	4.099-2	3.378-2	2.602-2	1.904-2	1.341-2	9.187-3	6.171-3	4.088-3	2.681-3
10	14	4.149-1	4.179-1	3.885-1	3.369-1	2.790-1	2.267-1	1.852-1	1.548-1	1.337-1	1.193-1	1.091-1
10	15	4.796-2	3.780-2	2.863-2	2.110-2	1.534-2	1.110-2	8.031-3	5.809-3	4.184-3	2.987-3	2.103-3
10	16	5.389-2	4.417-2	3.479-2	2.678-2	2.045-2	1.561-2	1.194-2	9.122-3	6.926-3	5.208-3	3.873-3
10	17	1.637-1	1.244-1	9.072-2	6.410-2	4.436-2	3.033-2	2.062-2	1.399-2	9.473-3	6.399-3	4.304-3
10	18	7.296-2	6.137-2	4.948-2	3.903-2	3.055-2	2.389-2	1.864-2	1.443-2	1.101-2	8.236-3	6.011-3
10	19	3.716-2	3.179-2	2.646-2	2.190-2	1.841-2	1.596-2	1.440-2	1.357-2	1.330-2	1.354-2	1.414-2
10	20	6.641-2	5.445-2	4.216-2	3.149-2	2.309-2	1.682-2	1.224-2	8.892-3	6.427-3	4.599-3	3.246-3
10	21	4.867-2	4.005-2	3.076-2	2.263-2	1.625-2	1.152-2	8.112-3	5.676-3	3.940-3	2.708-3	1.839-3
10	22	2.655-2	2.263-2	1.797-2	1.371-2	1.028-2	7.673-3	5.723-3	4.259-3	3.146-3	2.293-3	1.643-3
10	23	6.833-2	5.878-2	4.684-2	3.570-2	2.664-2	1.973-2	1.459-2	1.076-2	7.896-3	5.735-3	4.112-3
10	24	8.595-2	7.279-2	5.727-2	4.316-2	3.183-2	2.329-2	1.700-2	1.238-2	8.955-3	6.409-3	4.519-3
10	25	8.659-2	6.393-2	4.845-2	3.808-2	3.122-2	2.680-2	2.408-2	2.258-2	2.196-2	2.195-2	2.212-2
10	26	1.704-0	1.711-0	1.725-0	1.750-0	1.789-0	1.848-0	1.936-0	2.058-0	2.220-0	2.424-0	2.641-0
10	27	2.953-4	2.638-4	2.346-4	2.086-4	1.852-4	1.635-4	1.427-4	1.225-4	1.031-4	8.516-5	6.907-5
10	28	3.152-4	2.700-4	2.295-4	1.952-4	1.660-4	1.403-4	1.166-4	9.443-5	7.405-5	5.605-5	4.098-5
10	29	4.395-4	3.730-4	3.153-4	2.673-4	2.270-4	1.916-4	1.591-4	1.287-4	1.007-4	7.598-5	5.524-5
10	30	6.590-3	6.393-3	6.158-3	5.892-3	5.593-3	5.257-3	4.882-3	4.473-3	4.037-3	3.592-3	3.151-3
10	31	9.161-5	8.449-5	7.776-5	7.172-5	6.611-5	6.057-5	5.482-5	4.875-5	4.248-5	3.624-5	3.026-5
10	32	1.964-4	1.758-4	1.562-4	1.386-4	1.226-4	1.072-4	9.197-5	7.662-5	6.159-5	4.760-5	3.537-5
10	33	2.452-3	2.364-3	2.264-3	2.156-3	2.035-3	1.900-3	1.750-3	1.586-3	1.412-3	1.236-3	1.063-3
10	34	5.978-4	5.853-4	5.719-4	5.596-4	5.496-4	5.432-4	5.419-4	5.470-4	5.595-4	5.816-4	6.158-4
10	35	4.866-3	4.904-3	4.927-3	4.923-3	4.889-3	4.825-3	4.732-3	4.608-3	4.446-3	4.242-3	3.981-3
10	36	3.236-3	2.927-3	2.466-3	1.933-3	1.424-3	1.003-3	6.843-4	4.575-4	3.019-4	1.976-4	1.286-4
10	37	4.427-3	4.220-3	3.730-3	3.044-3	2.325-3	1.700-3	1.216-3	8.686-4	6.304-4	4.709-4	3.635-4
10	38	1.155-4	9.757-5	7.803-5	5.957-5	4.401-5	3.184-5	2.273-5	1.606-5	1.124-5	7.790-6	5.337-6
10	39	1.518-3	1.516-3	1.350-3	1.112-3	8.801-4	6.924-4	5.559-4	4.641-4	4.067-4	3.743-4	3.565-4
10	40	5.827-4	5.028-4	4.048-4	3.084-4	2.263-4	1.622-4	1.146-4	8.015-5	5.559-5	3.823-5	2.605-5
10	41	4.851-3	4.900-3	4.432-3	3.744-3	3.079-3	2.547-3	2.167-3	1.917-3	1.768-3	1.692-3	1.652-3
10	42	1.648-4	1.346-4	1.074-4	8.500-5	6.721-5	5.310-5	4.173-5	3.241-5	2.472-5	1.845-5	1.346-5
10	43	3.215-4	2.598-4	2.042-4	1.588-4	1.235-4	9.638-5	7.529-5	5.869-5	4.552-5	3.514-5	2.705-5
10	44	3.745-4	3.013-4	2.368-4	1.846-4	1.438-4	1.119-4	8.673-5	6.649-5	5.012-5	3.699-5	2.669-5
10	45	1.018-3	8.273-4	6.488-4	5.035-4	3.946-4	3.164-4	2.608-4	2.204-4	1.893-4	1.637-4	1.411-4
10	46	2.102-4	1.936-4	1.794-4	1.657-4	1.512-4	1.350-4	1.170-4	9.782-5	7.874-5	6.101-5	4.561-5
10	47	7.888-4	7.336-4	6.863-4	6.413-4	5.942-4	5.426-4	4.869-4	4.301-4	3.772-4	3.327-4	2.979-4
10	48	1.979-3	1.932-3	1.868-3	1.777-3	1.654-3	1.497-3	1.309-3	1.102-3	8.912-4	6.932-4	5.206-4
10	49	5.201-3	5.371-3	5.605-3	5.939-3	6.444-3	7.252-3	8.552-3	1.055-2	1.342-2	1.726-2	2.167-2
10	50	3.314-4	3.200-4	3.059-4	2.879-4	2.649-4	2.367-4	2.044-4	1.698-4	1.356-4	1.043-4	7.740-5
10	51	4.479-4	4.324-4	4.135-4	3.893-4	3.585-4	3.207-4	2.772-4	2.306-4	1.845-4	1.421-4	1.056-4

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
10	52	5.438-4	5.255-4	5.030-4	4.739-4	4.368-4	3.910-4	3.383-4	2.816-4	2.253-4	1.734-4	1.287-4
10	53	2.414-3	2.428-3	2.446-3	2.472-3	2.507-3	2.551-3	2.601-3	2.653-3	2.701-3	2.734-3	2.720-3
11	12	1.393-0	1.285-0	1.134-0	9.683-1	8.087-1	6.598-1	5.252-1	4.104-1	3.189-1	2.498-1	1.991-1
11	13	6.588-1	5.597-1	4.670-1	3.926-1	3.320-1	2.752-1	2.194-1	1.684-1	1.260-1	9.343-2	6.952-2
11	14	3.614-1	3.298-1	2.917-1	2.541-1	2.165-1	1.770-1	1.379-1	1.027-1	7.377-2	5.154-2	3.521-2
11	15	2.143-0	2.111-0	2.103-0	2.115-0	2.150-0	2.216-0	2.322-0	2.473-0	2.672-0	2.927-0	3.216-0
11	16	1.075-1	9.168-2	7.727-2	6.376-2	5.093-2	3.922-2	2.926-2	2.129-2	1.522-2	1.071-2	7.435-3
11	17	3.491-1	3.233-1	3.041-1	2.910-1	2.838-1	2.831-1	2.894-1	3.026-1	3.228-1	3.494-1	3.761-1
11	18	6.185-2	4.796-2	3.636-2	2.707-2	1.973-2	1.402-2	9.699-3	6.551-3	4.343-3	2.842-3	1.843-3
11	19	4.213-1	4.244-1	4.253-1	4.249-1	4.261-1	4.324-1	4.465-1	4.698-1	5.028-1	5.458-1	5.918-1
11	20	2.221-1	2.250-1	2.248-1	2.215-1	2.173-1	2.152-1	2.174-1	2.249-1	2.378-1	2.564-1	2.779-1
11	21	2.978-2	2.749-2	2.468-2	2.120-2	1.730-2	1.348-2	1.013-2	7.409-3	5.323-3	3.771-3	2.639-3
11	22	6.174-1	6.242-1	6.321-1	6.417-1	6.553-1	6.762-1	7.078-1	7.522-1	8.108-1	8.839-1	9.593-1
11	23	1.321-0	1.335-0	1.350-0	1.370-0	1.398-0	1.443-0	1.510-0	1.605-0	1.730-0	1.888-0	2.055-0
11	24	4.825-1	4.859-1	4.881-1	4.901-1	4.942-1	5.038-1	5.217-1	5.496-1	5.886-1	6.395-1	6.958-1
11	25	3.938-2	3.974-2	3.888-2	3.572-2	3.053-2	2.453-2	1.884-2	1.404-2	1.023-2	7.316-3	5.145-3
11	26	2.037-2	2.088-2	1.998-2	1.788-2	1.512-2	1.236-2	9.995-3	8.196-3	6.948-3	6.170-3	5.727-3
11	27	1.648-1	1.650-1	1.657-1	1.669-1	1.688-1	1.716-1	1.751-1	1.795-1	1.844-1	1.895-1	1.930-1
11	28	9.135-2	9.094-2	9.079-2	9.094-2	9.140-2	9.220-2	9.332-2	9.476-2	9.643-2	9.822-2	9.940-2
11	29	7.485-3	6.833-3	6.250-3	5.715-3	5.193-3	4.652-3	4.075-3	3.465-3	2.844-3	2.247-3	1.705-3
11	30	2.823-2	2.658-2	2.497-2	2.348-2	2.208-2	2.074-2	1.941-2	1.808-2	1.679-2	1.566-2	1.487-2
11	31	3.365-3	3.288-3	3.188-3	3.053-3	2.873-3	2.640-3	2.355-3	2.028-3	1.679-3	1.334-3	1.018-3
11	32	7.631-2	7.670-2	7.727-2	7.807-2	7.918-2	8.069-2	8.264-2	8.501-2	8.767-2	9.042-2	9.235-2
11	33	1.988-2	1.963-2	1.944-2	1.934-2	1.934-2	1.948-2	1.976-2	2.016-2	2.066-2	2.120-2	2.158-2
11	34	1.912-2	1.859-2	1.791-2	1.704-2	1.594-2	1.457-2	1.294-2	1.111-2	9.177-3	7.281-3	5.546-3
11	35	2.187-3	2.155-3	2.073-3	1.935-3	1.756-3	1.555-3	1.341-3	1.124-3	9.114-4	7.131-4	5.382-4
11	36	2.701-1	2.293-1	1.872-1	1.452-1	1.079-1	7.814-2	5.639-2	4.144-2	3.167-2	2.556-2	2.178-2
11	37	2.426-2	2.061-2	1.643-2	1.246-2	9.110-3	6.513-3	4.596-3	3.216-3	2.233-3	1.537-3	1.047-3
11	38	1.731-1	1.478-1	1.167-1	8.770-2	6.462-2	4.812-2	3.747-2	3.160-2	2.951-2	3.036-2	3.299-2
11	39	1.513-1	1.298-1	1.035-1	7.832-2	5.766-2	4.235-2	3.190-2	2.538-2	2.192-2	2.078-2	2.114-2
11	40	1.608-1	1.343-1	1.048-1	7.806-2	5.662-2	4.079-2	2.970-2	2.218-2	1.724-2	1.409-2	1.210-2
11	41	1.786-1	1.506-1	1.183-1	8.786-2	6.289-2	4.421-2	3.103-2	2.210-2	1.629-2	1.269-2	1.060-2
11	42	3.507-1	3.139-1	2.808-1	2.548-1	2.362-1	2.237-1	2.159-1	2.114-1	2.093-1	2.087-1	2.073-1
11	43	6.727-2	5.537-2	4.481-2	3.638-2	3.003-2	2.536-2	2.196-2	1.953-2	1.789-2	1.687-2	1.622-2
11	44	3.968-2	3.366-2	2.830-2	2.387-2	2.027-2	1.731-2	1.479-2	1.266-2	1.087-2	9.449-3	8.329-3
11	45	2.977-2	2.612-2	2.245-2	1.916-2	1.628-2	1.371-2	1.137-2	9.211-3	7.262-3	5.563-3	4.148-3
11	46	4.430-4	4.410-4	4.411-4	4.439-4	4.506-4	4.633-4	4.850-4	5.189-4	5.676-4	6.319-4	7.015-4
11	47	4.137-4	3.976-4	3.854-4	3.770-4	3.726-4	3.730-4	3.800-4	3.957-4	4.223-4	4.604-4	5.038-4
11	48	2.467-4	2.337-4	2.223-4	2.119-4	2.014-4	1.901-4	1.778-4	1.645-4	1.507-4	1.370-4	1.238-4
11	49	4.201-4	3.905-4	3.647-4	3.395-4	3.127-4	2.830-4	2.504-4	2.163-4	1.828-4	1.524-4	1.263-4
11	50	6.364-1	6.466-1	6.596-1	6.772-1	7.026-1	7.406-1	7.972-1	8.786-1	9.896-1	1.132-0	1.284-0
11	51	3.822-2	3.753-2	3.658-2	3.531-2	3.367-2	3.168-2	2.945-2	2.716-2	2.500-2	2.313-2	2.149-2
11	52	2.323-2	2.265-2	2.184-2	2.073-2	1.932-2	1.763-2	1.578-2	1.392-2	1.223-2	1.083-2	9.690-3

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
11	53	2.819-2	2.745-2	2.636-2	2.482-2	2.278-2	2.025-2	1.734-2	1.426-2	1.125-2	8.530-3	6.237-3
12	13	2.070-0	1.854-0	1.605-0	1.376-0	1.180-0	9.938-1	8.082-1	6.353-1	4.894-1	3.762-1	2.927-1
12	14	5.138-1	4.609-1	4.126-1	3.757-1	3.381-1	2.893-1	2.321-1	1.759-1	1.276-1	8.957-2	6.132-2
12	15	8.571-1	7.706-1	7.120-1	6.743-1	6.536-1	6.493-1	6.620-1	6.912-1	7.367-1	7.998-1	8.734-1
12	16	3.337-0	3.336-0	3.356-0	3.397-0	3.466-0	3.583-0	3.763-0	4.013-0	4.339-0	4.753-0	5.213-0
12	17	2.501-1	2.042-1	1.681-1	1.405-1	1.198-1	1.052-1	9.595-2	9.133-2	9.059-2	9.317-2	9.752-2
12	18	1.390-1	1.185-1	9.930-2	8.127-2	6.444-2	4.943-2	3.683-2	2.682-2	1.920-2	1.354-2	9.416-3
12	19	1.355-0	1.368-0	1.381-0	1.397-0	1.420-0	1.460-0	1.525-0	1.619-0	1.744-0	1.905-0	2.088-0
12	20	2.083-1	2.099-1	2.068-1	1.991-1	1.898-1	1.822-1	1.787-1	1.801-1	1.866-1	1.982-1	2.125-1
12	21	7.959-1	7.995-1	8.006-1	8.003-1	8.035-1	8.165-1	8.440-1	8.885-1	9.512-1	1.034-0	1.126-0
12	22	1.239-2	1.239-2	1.196-2	1.116-2	9.985-3	8.466-3	6.823-3	5.279-3	3.957-3	2.891-3	2.067-3
12	23	5.199-1	5.240-1	5.273-1	5.303-1	5.355-1	5.461-1	5.655-1	5.958-1	6.379-1	6.928-1	7.533-1
12	24	2.131-0	2.152-0	2.174-0	2.200-0	2.239-0	2.305-0	2.409-0	2.558-0	2.756-0	3.008-0	3.284-0
12	25	7.950-2	8.093-2	8.164-2	7.778-2	6.871-2	5.700-2	4.553-2	3.591-2	2.856-2	2.334-2	1.974-2
12	26	4.422-2	4.608-2	4.548-2	4.222-2	3.713-2	3.165-2	2.691-2	2.338-2	2.114-2	2.001-2	1.965-2
12	27	1.292-1	1.286-1	1.284-1	1.287-1	1.294-1	1.306-1	1.323-1	1.345-1	1.371-1	1.398-1	1.413-1
12	28	2.069-1	2.069-1	2.076-1	2.090-1	2.114-1	2.148-1	2.194-1	2.249-1	2.311-1	2.375-1	2.418-1
12	29	1.037-1	1.026-1	1.019-1	1.016-1	1.017-1	1.021-1	1.029-1	1.040-1	1.057-1	1.123-1	1.390-1
12	30	5.054-2	4.747-2	4.409-2	4.099-2	3.831-2	3.599-2	3.397-2	3.216-2	3.054-2	2.904-2	2.723-2
12	31	5.508-2	5.538-2	5.582-2	5.645-2	5.734-2	5.856-2	6.013-2	6.202-2	6.414-2	6.629-2	6.777-2
12	32	2.436-2	2.421-2	2.402-2	2.375-2	2.340-2	2.296-2	2.245-2	2.189-2	2.132-2	2.077-2	2.017-2
12	33	8.822-2	8.781-2	8.750-2	8.750-2	8.792-2	8.884-2	9.027-2	9.217-2	9.441-2	9.675-2	9.826-2
12	34	3.312-2	3.216-2	3.089-2	2.931-2	2.735-2	2.496-2	2.215-2	1.900-2	1.569-2	1.244-2	9.478-3
12	35	4.105-3	4.001-3	3.805-3	3.519-3	3.173-3	2.798-3	2.410-3	2.020-3	1.642-3	1.291-3	9.812-4
12	36	7.014-1	5.231-1	3.829-1	2.743-1	1.932-1	1.353-1	9.567-2	6.950-2	5.282-2	4.253-2	3.622-2
12	37	3.852-2	3.362-2	2.733-2	2.097-2	1.545-2	1.108-2	7.829-3	5.477-3	3.800-3	2.613-3	1.778-3
12	38	6.749-2	5.307-2	4.006-2	2.919-2	2.075-2	1.453-2	1.010-2	6.983-3	4.808-3	3.288-3	2.230-3
12	39	5.021-1	4.260-1	3.379-1	2.540-1	1.852-1	1.344-1	9.998-2	7.875-2	6.767-2	6.416-2	6.537-2
12	40	3.278-1	2.801-1	2.235-1	1.692-1	1.245-1	9.102-2	6.776-2	5.261-2	4.359-2	3.907-2	3.740-2
12	41	1.715-1	1.424-1	1.124-1	8.515-2	6.305-2	4.662-2	3.522-2	2.783-2	2.354-2	2.162-2	2.125-2
12	42	7.813-2	6.321-2	5.033-2	4.024-2	3.274-2	2.728-2	2.335-2	2.057-2	1.868-2	1.750-2	1.674-2
12	43	5.623-1	5.048-1	4.543-1	4.151-1	3.871-1	3.683-1	3.564-1	3.494-1	3.459-1	3.447-1	3.423-1
12	44	1.052-1	8.734-2	7.183-2	5.944-2	4.989-2	4.255-2	3.685-2	3.243-2	2.910-2	2.671-2	2.498-2
12	45	5.543-2	4.847-2	4.188-2	3.617-2	3.128-2	2.701-2	2.316-2	1.964-2	1.649-2	1.376-2	1.145-2
12	46	5.802-5	4.878-5	4.134-5	3.546-5	3.068-5	2.662-5	2.302-5	1.974-5	1.673-5	1.400-5	1.155-5
12	47	1.116-3	1.084-3	1.062-3	1.048-3	1.044-3	1.052-3	1.075-3	1.120-3	1.190-3	1.289-3	1.400-3
12	48	6.177-4	5.967-4	5.802-4	5.670-4	5.562-4	5.480-4	5.435-4	5.448-4	5.540-4	5.720-4	5.916-4
12	49	7.078-4	6.752-4	6.440-4	6.112-4	5.745-4	5.336-4	4.904-4	4.485-4	4.126-4	3.870-4	3.711-4
12	50	1.582-1	1.594-1	1.608-1	1.628-1	1.658-1	1.708-1	1.790-1	1.916-1	2.099-1	2.343-1	2.611-1
12	51	9.469-1	9.624-1	9.820-1	1.009-0	1.046-0	1.103-0	1.186-0	1.306-0	1.470-0	1.680-0	1.906-0
12	52	6.078-2	5.954-2	5.782-2	5.550-2	5.252-2	4.894-2	4.497-2	4.093-2	3.718-2	3.398-2	3.129-2
12	53	4.696-2	4.572-2	4.388-2	4.131-2	3.790-2	3.368-2	2.884-2	2.372-2	1.871-2	1.419-2	1.038-2
13	14	6.027-1	5.383-1	4.799-1	4.278-1	3.738-1	3.131-1	2.491-1	1.891-1	1.381-1	9.779-2	6.758-2

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
13	15	2.428-1	1.752-1	1.257-1	9.037-2	6.525-2	4.756-2	3.542-2	2.742-2	2.245-2	1.971-2	1.846-2
13	16	1.052-0	9.682-1	9.138-1	8.803-1	8.640-1	8.660-1	8.882-1	9.310-1	9.946-1	1.081-0	1.179-0
13	17	4.498-1	3.751-1	3.170-1	2.738-1	2.428-1	2.223-1	2.112-1	2.084-1	2.128-1	2.230-1	2.335-1
13	18	5.213-0	5.240-0	5.289-0	5.360-0	5.469-0	5.650-0	5.927-0	6.313-0	6.817-0	7.458-0	8.173-0
13	19	3.199-2	2.898-2	2.567-2	2.182-2	1.770-2	1.378-2	1.038-2	7.634-3	5.520-3	3.934-3	2.767-3
13	20	2.621-0	2.643-0	2.670-0	2.703-0	2.753-0	2.835-0	2.964-0	3.147-0	3.392-0	3.705-0	4.055-0
13	21	3.304-0	3.332-0	3.353-0	3.373-0	3.410-0	3.489-0	3.628-0	3.838-0	4.126-0	4.496-0	4.906-0
13	22	1.187-2	1.284-2	1.256-2	1.106-2	8.879-3	6.640-3	4.721-3	3.247-3	2.187-3	1.456-3	9.643-4
13	23	3.609-2	3.775-2	3.663-2	3.264-2	2.686-2	2.072-2	1.522-2	1.081-2	7.518-3	5.155-3	3.502-3
13	24	4.356-1	4.390-1	4.380-1	4.328-1	4.267-1	4.247-1	4.304-1	4.457-1	4.713-1	5.073-1	5.476-1
13	25	1.324-1	1.378-1	1.447-1	1.435-1	1.313-1	1.129-1	9.415-2	7.857-2	6.728-2	6.011-2	5.600-2
13	26	4.603-2	4.660-2	4.321-2	3.701-2	2.978-2	2.290-2	1.707-2	1.245-2	8.941-3	6.325-3	4.409-3
13	27	2.023-2	1.929-2	1.854-2	1.795-2	1.746-2	1.704-2	1.665-2	1.629-2	1.598-2	1.569-2	1.536-2
13	28	1.405-1	1.393-1	1.386-1	1.385-1	1.389-1	1.398-1	1.412-1	1.431-1	1.454-1	1.478-1	1.491-1
13	29	4.518-1	4.514-1	4.524-1	4.550-1	4.596-1	4.664-1	4.754-1	4.864-1	4.990-1	5.136-1	5.307-1
13	30	8.070-2	7.445-2	6.763-2	6.171-2	5.711-2	5.375-2	5.140-2	4.983-2	4.882-2	4.800-2	4.627-2
13	31	3.282-3	3.178-3	3.050-3	2.893-3	2.703-3	2.471-3	2.196-3	1.886-3	1.558-3	1.237-3	9.436-4
13	32	8.416-2	8.437-2	8.472-2	8.528-2	8.613-2	8.734-2	8.894-2	9.093-2	9.318-2	9.549-2	9.691-2
13	33	1.549-1	1.534-1	1.519-1	1.508-1	1.502-1	1.502-1	1.508-1	1.519-1	1.534-1	1.551-1	1.557-1
13	34	4.963-2	4.795-2	4.581-2	4.328-2	4.027-2	3.672-2	3.258-2	2.799-2	2.319-2	1.850-2	1.424-2
13	35	5.735-3	5.553-3	5.269-3	4.896-3	4.458-3	3.976-3	3.459-3	2.921-3	2.382-3	1.872-3	1.418-3
13	36	9.829-1	7.434-1	5.522-1	4.003-1	2.842-1	1.998-1	1.414-1	1.024-1	7.740-2	6.188-2	5.226-2
13	37	4.709-2	4.154-2	3.421-2	2.658-2	1.978-2	1.431-2	1.019-2	7.171-3	5.003-3	3.456-3	2.360-3
13	38	4.919-2	4.314-2	3.524-2	2.725-2	2.042-2	1.518-2	1.140-2	8.797-3	7.052-3	5.912-3	5.157-3
13	39	2.343-1	2.002-1	1.606-1	1.218-1	8.901-2	6.379-2	4.549-2	3.267-2	2.385-2	1.785-2	1.378-2
13	40	1.596-0	1.367-0	1.087-0	8.147-1	5.882-1	4.192-1	3.028-1	2.286-1	1.863-1	1.672-1	1.629-1
13	41	1.248-1	1.102-1	9.022-2	6.954-2	5.156-2	3.745-2	2.699-2	1.943-2	1.405-2	1.023-2	7.534-3
13	42	4.250-2	3.535-2	2.930-2	2.445-2	2.060-2	1.748-2	1.489-2	1.270-2	1.090-2	9.457-3	8.312-3
13	43	1.293-1	1.042-1	8.333-2	6.721-2	5.513-2	4.608-2	3.922-2	3.401-2	3.012-2	2.735-2	2.535-2
13	44	2.017-0	1.681-0	1.353-0	1.087-0	8.911-1	7.560-1	6.661-1	6.083-1	5.725-1	5.512-1	5.354-1
13	45	6.733-2	5.804-2	4.940-2	4.194-2	3.555-2	2.990-2	2.475-2	2.001-2	1.571-2	1.197-2	8.860-3
13	46	1.512-4	1.358-4	1.232-4	1.128-4	1.036-4	9.494-5	8.639-5	7.761-5	6.855-5	5.937-5	5.033-5
13	47	5.573-4	4.883-4	4.326-4	3.870-4	3.475-4	3.110-4	2.753-4	2.397-4	2.045-4	1.707-4	1.388-4
13	48	2.028-3	2.000-3	1.985-3	1.983-3	1.995-3	2.030-3	2.096-3	2.204-3	2.363-3	2.575-3	2.804-3
13	49	8.813-4	8.148-4	7.560-4	6.984-4	6.366-4	5.680-4	4.925-4	4.129-4	3.335-4	2.593-4	1.944-4
13	50	3.638-2	3.563-2	3.458-2	3.317-2	3.138-2	2.929-2	2.707-2	2.496-2	2.324-2	2.207-2	2.135-2
13	51	1.816-1	1.822-1	1.828-1	1.837-1	1.853-1	1.887-1	1.951-1	2.061-1	2.229-1	2.461-1	2.726-1
13	52	1.421-0	1.444-0	1.472-0	1.511-0	1.565-0	1.645-0	1.764-0	1.935-0	2.170-0	2.472-0	2.800-0
13	53	6.567-2	6.392-2	6.134-2	5.772-2	5.294-2	4.703-2	4.026-2	3.310-2	2.611-2	1.980-2	1.448-2
14	15	3.888-1	3.465-1	3.068-1	2.737-1	2.494-1	2.351-1	2.307-1	2.350-1	2.468-1	2.640-1	2.814-1
14	16	3.340-1	2.808-1	2.250-1	1.755-1	1.359-1	1.066-1	8.643-2	7.363-2	6.645-2	6.327-2	6.214-2
14	17	1.821-0	1.694-0	1.594-0	1.523-0	1.484-0	1.483-0	1.525-0	1.607-0	1.726-0	1.879-0	2.042-0
14	18	3.563-1	2.975-1	2.332-1	1.749-1	1.268-1	8.960-2	6.201-2	4.227-2	2.848-2	1.902-2	1.260-2

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
14	19	1.129-1	9.787-2	8.305-2	6.984-2	5.893-2	5.060-2	4.478-2	4.112-2	3.927-2	3.891-2	3.926-2
14	20	2.072-1	1.798-1	1.524-1	1.275-1	1.065-1	9.027-2	7.886-2	7.165-2	6.793-2	6.708-2	6.797-2
14	21	2.871-1	2.411-1	1.972-1	1.582-1	1.255-1	9.954-2	8.004-2	6.599-2	5.632-2	5.022-2	4.675-2
14	22	3.500-2	2.874-2	2.250-2	1.697-2	1.246-2	8.987-3	6.409-3	4.534-3	3.184-3	2.216-3	1.526-3
14	23	1.023-1	8.885-2	7.312-2	5.748-2	4.355-2	3.212-2	2.330-2	1.673-2	1.194-2	8.490-3	6.026-3
14	24	1.843-1	1.616-1	1.349-1	1.079-1	8.325-2	6.267-2	4.660-2	3.458-2	2.583-2	1.960-2	1.525-2
14	25	8.490-0	8.499-0	8.546-0	8.626-0	8.769-0	9.026-0	9.440-0	1.003+1	1.082+1	1.183+1	1.295+1
14	26	2.252-0	2.279-0	2.307-0	2.337-0	2.378-0	2.445-0	2.552-0	2.708-0	2.917-0	3.183-0	3.472-0
14	27	2.249-2	2.078-2	1.926-2	1.785-2	1.641-2	1.487-2	1.316-2	1.131-2	9.406-3	7.567-3	5.900-3
14	28	3.094-2	2.857-2	2.649-2	2.454-2	2.255-2	2.038-2	1.797-2	1.534-2	1.262-2	9.989-3	7.609-3
14	29	4.084-2	3.771-2	3.497-2	3.239-2	2.977-2	2.692-2	2.376-2	2.031-2	1.676-2	1.337-2	1.058-2
14	30	2.729-1	2.669-1	2.607-1	2.562-1	2.535-1	2.528-1	2.543-1	2.580-1	2.636-1	2.701-1	2.753-1
14	31	3.192-3	3.047-3	2.878-3	2.690-3	2.480-3	2.240-3	1.971-3	1.679-3	1.379-3	1.091-3	8.314-4
14	32	9.374-3	8.975-3	8.512-3	7.985-3	7.380-3	6.679-3	5.881-3	5.007-3	4.105-3	3.236-3	2.454-3
14	33	8.776-2	8.565-2	8.359-2	8.193-2	8.065-2	7.976-2	7.935-2	7.943-2	7.997-2	8.079-2	8.116-2
14	34	3.662-1	3.672-1	3.684-1	3.703-1	3.735-1	3.783-1	3.849-1	3.931-1	4.023-1	4.118-1	4.189-1
14	35	5.419-2	5.452-2	5.486-2	5.524-2	5.571-2	5.642-2	5.749-2	5.894-2	6.067-2	6.249-2	6.371-2
14	36	1.672-1	1.476-1	1.214-1	9.376-2	6.879-2	4.866-2	3.360-2	2.285-2	1.537-2	1.026-2	6.791-3
14	37	1.132-1	1.055-1	9.314-2	7.666-2	5.960-2	4.494-2	3.385-2	2.620-2	2.133-2	1.846-2	1.683-2
14	38	1.753-2	1.558-2	1.289-2	1.010-2	7.638-3	5.662-3	4.147-3	3.008-3	2.158-3	1.526-3	1.062-3
14	39	1.475-1	1.285-1	1.045-1	8.039-2	5.975-2	4.391-2	3.268-2	2.522-2	2.068-2	1.833-2	1.742-2
14	40	9.072-2	7.882-2	6.436-2	5.004-2	3.768-2	2.785-2	2.037-2	1.476-2	1.058-2	7.486-3	5.213-3
14	41	4.160-1	3.716-1	3.054-1	2.344-1	1.722-1	1.244-1	9.072-2	6.889-2	5.610-2	4.999-2	4.817-2
14	42	2.615-2	2.241-2	1.886-2	1.578-2	1.316-2	1.089-2	8.879-3	7.075-3	5.481-3	4.117-3	2.998-3
14	43	6.067-2	5.148-2	4.256-2	3.490-2	2.866-2	2.357-2	1.935-2	1.578-2	1.276-2	1.028-2	8.274-3
14	44	6.564-2	5.534-2	4.606-2	3.825-2	3.176-2	2.622-2	2.134-2	1.698-2	1.313-2	9.852-3	7.168-3
14	45	8.645-1	7.515-1	6.160-1	4.953-1	4.021-1	3.359-1	2.912-1	2.624-1	2.445-1	2.340-1	2.265-1
14	46	4.836-4	4.509-4	4.206-4	3.899-4	3.561-4	3.179-4	2.753-4	2.302-4	1.854-4	1.438-4	1.075-4
14	47	3.959-3	3.425-3	3.086-3	2.883-3	2.784-3	2.787-3	2.917-3	3.209-3	3.700-3	4.413-3	5.264-3
14	48	2.335-3	2.257-3	2.164-3	2.048-3	1.902-3	1.724-3	1.518-3	1.298-3	1.082-3	8.861-4	7.212-4
14	49	1.299-2	1.327-2	1.372-2	1.442-2	1.553-2	1.736-2	2.028-2	2.475-2	3.112-2	3.956-2	4.916-2
14	50	3.301-2	3.106-2	2.909-2	2.691-2	2.437-2	2.145-2	1.823-2	1.490-2	1.171-2	8.861-3	6.478-3
14	51	4.599-2	4.325-2	4.050-2	3.744-2	3.390-2	2.983-2	2.534-2	2.071-2	1.627-2	1.231-2	9.000-3
14	52	5.871-2	5.518-2	5.164-2	4.772-2	4.318-2	3.797-2	3.224-2	2.634-2	2.067-2	1.562-2	1.139-2
14	53	9.803-1	9.934-1	1.012-0	1.038-0	1.075-0	1.131-0	1.214-0	1.331-0	1.491-0	1.694-0	1.914-0
15	16	1.095-0	9.660-1	8.249-1	6.922-1	5.776-1	4.833-1	4.075-1	3.473-1	2.996-1	2.623-1	2.325-1
15	17	7.504-1	6.279-1	5.125-1	4.100-1	3.229-1	2.528-1	1.992-1	1.596-1	1.311-1	1.109-1	9.638-2
15	18	2.526-1	2.005-1	1.506-1	1.088-1	7.668-2	5.340-2	3.718-2	2.618-2	1.885-2	1.404-2	1.087-2
15	19	5.363-1	5.057-1	4.519-1	3.782-1	2.976-1	2.234-1	1.627-1	1.166-1	8.305-2	5.931-2	4.274-2
15	20	3.173-1	2.679-1	2.221-1	1.785-1	1.390-1	1.055-1	7.895-2	5.875-2	4.389-2	3.326-2	2.579-2
15	21	2.313-1	1.803-1	1.393-1	1.062-1	7.974-2	5.919-2	4.376-2	3.246-2	2.434-2	1.859-2	1.455-2
15	22	9.557-2	9.406-2	9.195-2	8.917-2	8.615-2	8.339-2	8.114-2	7.946-2	7.825-2	7.735-2	7.605-2
15	23	3.114-1	3.007-1	2.798-1	2.503-1	2.178-1	1.880-1	1.638-1	1.455-1	1.322-1	1.228-1	1.155-1

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
15	24	2.725-1	2.498-1	2.205-1	1.863-1	1.517-1	1.213-1	9.698-2	7.881-2	6.572-2	5.643-2	4.964-2
15	25	9.232-2	9.172-2	8.591-2	7.523-2	6.235-2	4.986-2	3.910-2	3.044-2	2.372-2	1.866-2	1.487-2
15	26	8.512-2	8.660-2	8.191-2	7.265-2	6.168-2	5.134-2	4.271-2	3.597-2	3.090-2	2.717-2	2.435-2
15	27	1.544-0	1.546-0	1.555-0	1.575-0	1.608-0	1.658-0	1.731-0	1.833-0	1.969-0	2.139-0	2.320-0
15	28	1.297-1	1.282-1	1.272-1	1.269-1	1.272-1	1.283-1	1.305-1	1.344-1	1.402-1	1.482-1	1.570-1
15	29	1.715-2	1.551-2	1.418-2	1.306-2	1.205-2	1.105-2	1.001-2	8.958-3	7.944-3	7.323-3	8.137-3
15	30	2.658-1	2.665-1	2.684-1	2.717-1	2.768-1	2.842-1	2.950-1	3.104-1	3.312-1	3.584-1	3.900-1
15	31	5.307-3	5.200-3	5.047-3	4.833-3	4.542-3	4.165-3	3.703-3	3.177-3	2.622-3	2.079-3	1.587-3
15	32	1.834-2	1.823-2	1.809-2	1.792-2	1.773-2	1.751-2	1.733-2	1.721-2	1.722-2	1.738-2	1.751-2
15	33	3.250-2	3.265-2	3.291-2	3.334-2	3.398-2	3.491-2	3.625-2	3.815-2	4.070-2	4.394-2	4.738-2
15	34	4.153-2	4.089-2	3.994-2	3.858-2	3.670-2	3.423-2	3.121-2	2.779-2	2.423-2	2.085-2	1.790-2
15	35	2.611-3	2.577-3	2.510-3	2.403-3	2.252-3	2.058-3	1.823-3	1.559-3	1.283-3	1.015-3	7.728-4
15	36	2.186-2	1.973-2	1.675-2	1.323-2	9.796-3	6.910-3	4.717-3	3.160-3	2.100-3	1.399-3	9.432-4
15	37	2.210-3	1.934-3	1.589-3	1.224-3	8.918-4	6.244-4	4.253-4	2.847-4	1.884-4	1.239-4	8.108-5
15	38	3.809-3	3.172-3	2.488-3	1.861-3	1.357-3	9.897-4	7.419-4	5.874-4	5.007-4	4.601-4	4.450-4
15	39	3.619-3	3.116-3	2.485-3	1.862-3	1.340-3	9.472-4	6.715-4	4.881-4	3.720-4	3.022-4	2.614-4
15	40	3.319-3	2.935-3	2.378-3	1.798-3	1.302-3	9.221-4	6.526-4	4.700-4	3.507-4	2.751-4	2.271-4
15	41	2.638-3	2.483-3	2.125-3	1.705-3	1.326-3	1.028-3	8.115-4	6.627-4	5.649-4	5.034-4	4.636-4
15	42	7.539-3	7.050-3	6.678-3	6.482-3	6.483-3	6.690-3	7.126-3	7.810-3	8.767-3	1.001-2	1.140-2
15	43	2.474-3	2.225-3	2.023-3	1.881-3	1.797-3	1.766-3	1.781-3	1.843-3	1.950-3	2.106-3	2.283-3
15	44	5.074-4	4.339-4	3.684-4	3.149-4	2.723-4	2.381-4	2.101-4	1.875-4	1.701-4	1.581-4	1.502-4
15	45	1.332-3	1.178-3	1.030-3	9.019-4	7.930-4	6.981-4	6.124-4	5.341-4	4.639-4	4.040-4	3.547-4
15	46	7.579-3	7.583-3	7.605-3	7.657-3	7.754-3	7.912-3	8.150-3	8.483-3	8.910-3	9.405-3	9.843-3
15	47	1.276-2	1.265-2	1.253-2	1.240-2	1.227-2	1.216-2	1.210-2	1.213-2	1.227-2	1.251-2	1.273-2
15	48	6.373-4	6.321-4	6.283-4	6.259-4	6.257-4	6.288-4	6.370-4	6.516-4	6.736-4	7.027-4	7.331-4
15	49	1.190-3	1.172-3	1.147-3	1.114-3	1.072-3	1.022-3	9.690-4	9.163-4	8.692-4	8.309-4	7.980-4
15	50	7.719-3	7.730-3	7.722-3	7.698-3	7.659-3	7.609-3	7.550-3	7.484-3	7.415-3	7.343-3	7.222-3
15	51	6.666-4	6.578-4	6.452-4	6.277-4	6.048-4	5.762-4	5.424-4	5.047-4	4.650-4	4.250-4	3.845-4
15	52	1.492-4	1.433-4	1.358-4	1.265-4	1.150-4	1.019-4	8.805-5	7.460-5	6.266-5	5.293-5	4.536-5
15	53	7.436-4	7.346-4	7.213-4	7.027-4	6.780-4	6.467-4	6.090-4	5.654-4	5.174-4	4.665-4	4.134-4
16	17	6.624-1	5.405-1	4.244-1	3.262-1	2.483-1	1.883-1	1.427-1	1.080-1	8.154-2	6.130-2	4.588-2
16	18	1.192-0	1.074-0	9.267-1	7.812-1	6.529-1	5.470-1	4.625-1	3.959-1	3.438-1	3.032-1	2.710-1
16	19	3.016-1	2.601-1	2.237-1	1.912-1	1.631-1	1.402-1	1.226-1	1.095-1	1.002-1	9.376-2	8.887-2
16	20	6.936-1	6.350-1	5.598-1	4.696-1	3.762-1	2.923-1	2.246-1	1.733-1	1.361-1	1.098-1	9.133-2
16	21	4.885-1	4.152-1	3.456-1	2.795-1	2.200-1	1.705-1	1.320-1	1.033-1	8.256-2	6.790-2	5.748-2
16	22	3.647-2	3.174-2	2.728-2	2.300-2	1.898-2	1.538-2	1.225-2	9.578-3	7.326-3	5.467-3	3.976-3
16	23	2.277-1	2.075-1	1.883-1	1.702-1	1.538-1	1.399-1	1.288-1	1.203-1	1.140-1	1.094-1	1.052-1
16	24	7.789-1	7.325-1	6.577-1	5.597-1	4.556-1	3.619-1	2.867-1	2.304-1	1.900-1	1.617-1	1.414-1
16	25	1.664-1	1.589-1	1.439-1	1.224-1	9.871-2	7.666-2	5.799-2	4.301-2	3.136-2	2.251-2	1.591-2
16	26	5.879-2	5.752-2	5.361-2	4.784-2	4.131-2	3.487-2	2.894-2	2.368-2	1.914-2	1.532-2	1.220-2
16	27	2.342-1	2.333-1	2.335-1	2.350-1	2.383-1	2.437-1	2.521-1	2.643-1	2.808-1	3.022-1	3.253-1
16	28	2.248-0	2.254-0	2.270-0	2.301-0	2.351-0	2.427-0	2.537-0	2.690-0	2.892-0	3.144-0	3.408-0
16	29	9.050-2	8.920-2	8.805-2	8.702-2	8.607-2	8.523-2	8.468-2	8.473-2	8.572-2	8.797-2	9.091-2

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
16	30	3.760-2	3.697-2	3.627-2	3.548-2	3.455-2	3.347-2	3.231-2	3.119-2	3.032-2	2.991-2	3.004-2
16	31	8.943-3	8.952-3	8.979-3	9.034-3	9.132-3	9.292-3	9.537-3	9.889-3	1.036-2	1.093-2	1.146-2
16	32	1.441-2	1.414-2	1.374-2	1.320-2	1.246-2	1.151-2	1.035-2	9.029-3	7.651-3	6.316-3	5.110-3
16	33	3.556-2	3.535-2	3.508-2	3.475-2	3.436-2	3.394-2	3.355-2	3.332-2	3.337-2	3.379-2	3.433-2
16	34	7.977-2	7.892-2	7.764-2	7.582-2	7.331-2	7.003-2	6.609-2	6.179-2	5.761-2	5.409-2	5.134-2
16	35	3.923-3	3.876-3	3.781-3	3.627-3	3.409-3	3.125-3	2.780-3	2.392-3	1.986-3	1.594-3	1.241-3
16	36	2.801-2	2.471-2	2.063-2	1.612-2	1.187-2	8.357-3	5.707-3	3.834-3	2.564-3	1.725-3	1.179-3
16	37	3.392-3	3.068-3	2.573-3	2.006-3	1.473-3	1.034-3	7.051-4	4.714-4	3.116-4	2.047-4	1.341-4
16	38	1.031-3	8.629-4	6.777-4	5.045-4	3.620-4	2.541-4	1.762-4	1.214-4	8.325-5	5.671-5	3.831-5
16	39	6.165-3	5.248-3	4.173-3	3.144-3	2.296-3	1.666-3	1.232-3	9.524-4	7.851-4	6.950-4	6.496-4
16	40	7.165-3	6.711-3	5.620-3	4.339-3	3.190-3	2.296-3	1.659-3	1.233-3	9.645-4	8.043-4	7.111-4
16	41	2.831-3	2.554-3	2.138-3	1.704-3	1.330-3	1.045-3	8.436-4	7.106-4	6.294-4	5.856-4	5.638-4
16	42	1.111-3	9.402-4	8.012-4	6.944-4	6.128-4	5.482-4	4.940-4	4.469-4	4.056-4	3.705-4	3.399-4
16	43	1.141-2	1.054-2	9.897-3	9.546-3	9.505-3	9.782-3	1.040-2	1.137-2	1.274-2	1.451-2	1.645-2
16	44	2.720-3	2.461-3	2.250-3	2.102-3	2.014-3	1.977-3	1.987-3	2.044-3	2.150-3	2.306-3	2.483-3
16	45	1.663-3	1.486-3	1.333-3	1.211-3	1.117-3	1.046-3	9.960-4	9.697-4	9.716-4	1.006-3	1.064-3
16	46	2.028-3	1.938-3	1.842-3	1.729-3	1.594-3	1.434-3	1.252-3	1.055-3	8.566-4	6.689-4	5.029-4
16	47	1.777-2	1.766-2	1.764-2	1.772-2	1.791-2	1.827-2	1.882-2	1.958-2	2.056-2	2.171-2	2.272-2
16	48	7.726-3	7.675-3	7.618-3	7.557-3	7.496-3	7.451-3	7.439-3	7.484-3	7.598-3	7.769-3	7.881-3
16	49	3.459-3	3.403-3	3.322-3	3.212-3	3.071-3	2.903-3	2.719-3	2.532-3	2.359-3	2.214-3	2.090-3
16	50	6.259-4	6.171-4	6.044-4	5.870-4	5.645-4	5.372-4	5.060-4	4.726-4	4.392-4	4.074-4	3.764-4
16	51	1.142-2	1.145-2	1.145-2	1.143-2	1.139-2	1.133-2	1.125-2	1.115-2	1.104-2	1.093-2	1.072-2
16	52	8.560-4	8.449-4	8.292-4	8.073-4	7.784-4	7.421-4	6.990-4	6.508-4	5.997-4	5.477-4	4.944-4
16	53	7.047-4	6.897-4	6.679-4	6.377-4	5.983-4	5.504-4	4.960-4	4.389-4	3.832-4	3.326-4	2.882-4
17	18	6.038-1	5.018-1	4.047-1	3.213-1	2.534-1	1.996-1	1.572-1	1.238-1	9.729-2	7.646-2	6.022-2
17	19	3.873-1	3.080-1	2.420-1	1.862-1	1.400-1	1.032-1	7.521-2	5.437-2	3.912-2	2.807-2	2.011-2
17	20	4.527-1	3.847-1	3.228-1	2.624-1	2.056-1	1.566-1	1.173-1	8.738-2	6.537-2	4.950-2	3.816-2
17	21	4.230-1	3.868-1	3.416-1	2.884-1	2.330-1	1.821-1	1.394-1	1.055-1	7.940-2	5.968-2	4.496-2
17	22	5.695-2	5.097-2	4.398-2	3.695-2	3.061-2	2.534-2	2.121-2	1.807-2	1.574-2	1.405-2	1.277-2
17	23	2.321-1	2.271-1	2.083-1	1.781-1	1.431-1	1.100-1	8.254-2	6.146-2	4.601-2	3.498-2	2.716-2
17	24	4.114-1	4.092-1	3.818-1	3.290-1	2.633-1	1.993-1	1.452-1	1.035-1	7.287-2	5.109-2	3.587-2
17	25	1.984-1	2.047-1	1.969-1	1.750-1	1.461-1	1.176-1	9.365-2	7.526-2	6.201-2	5.292-2	4.678-2
17	26	5.100-1	5.343-1	5.120-1	4.545-1	3.838-1	3.179-1	2.652-1	2.267-1	2.003-1	1.829-1	1.708-1
17	27	2.126-1	2.063-1	2.021-1	2.003-1	2.007-1	2.035-1	2.092-1	2.183-1	2.311-1	2.481-1	2.665-1
17	28	6.509-2	5.639-2	4.943-2	4.387-2	3.917-2	3.485-2	3.063-2	2.644-2	2.237-2	1.863-2	1.536-2
17	29	8.594-2	7.456-2	6.556-2	5.832-2	5.207-2	4.617-2	4.024-2	3.421-2	2.824-2	2.269-2	1.805-2
17	30	2.277-0	2.289-0	2.312-0	2.350-0	2.407-0	2.488-0	2.604-0	2.764-0	2.975-0	3.245-0	3.554-0
17	31	1.551-3	1.491-3	1.424-3	1.342-3	1.239-3	1.111-3	9.619-4	7.997-4	6.370-4	4.865-4	3.573-4
17	32	6.882-2	6.906-2	6.957-2	7.041-2	7.168-2	7.356-2	7.634-2	8.030-2	8.566-2	9.252-2	9.990-2
17	33	2.794-1	2.812-1	2.840-1	2.882-1	2.941-1	3.026-1	3.148-1	3.320-1	3.551-1	3.844-1	4.157-1
17	34	5.062-2	5.052-2	5.037-2	5.019-2	5.004-2	5.000-2	5.020-2	5.080-2	5.195-2	5.379-2	5.611-2
17	35	3.298-3	3.293-3	3.219-3	3.070-3	2.855-3	2.587-3	2.280-3	1.949-3	1.613-3	1.293-3	1.004-3
17	36	1.192-2	1.097-2	9.348-3	7.369-3	5.438-3	3.819-3	2.592-3	1.721-3	1.127-3	7.334-4	4.764-4

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
17	37	5.853-3	5.782-3	5.193-3	4.246-3	3.211-3	2.293-3	1.575-3	1.055-3	6.960-4	4.556-4	2.973-4
17	38	6.051-4	5.144-4	4.118-4	3.136-4	2.320-4	1.706-4	1.277-4	9.960-5	8.227-5	7.237-5	6.683-5
17	39	1.791-3	1.670-3	1.436-3	1.161-3	9.098-4	7.113-4	5.694-4	4.750-4	4.160-4	3.813-4	3.597-4
17	40	1.818-3	1.729-3	1.462-3	1.133-3	8.296-4	5.874-4	4.092-4	2.836-4	1.973-4	1.387-4	9.911-5
17	41	3.044-3	2.980-3	2.647-3	2.177-3	1.711-3	1.326-3	1.038-3	8.349-4	6.953-4	5.992-4	5.290-4
17	42	2.055-3	1.709-3	1.420-3	1.210-3	1.074-3	1.001-3	9.794-4	1.003-3	1.068-3	1.171-3	1.294-3
17	43	6.109-4	5.311-4	4.620-4	4.062-4	3.621-4	3.273-4	3.004-4	2.813-4	2.710-4	2.710-4	2.787-4
17	44	8.616-4	7.576-4	6.662-4	5.906-4	5.279-4	4.734-4	4.235-4	3.765-4	3.328-4	2.936-4	2.589-4
17	45	1.137-2	8.882-3	6.785-3	5.199-3	4.065-3	3.271-3	2.711-3	2.301-3	1.985-3	1.729-3	1.509-3
17	46	2.624-3	2.595-3	2.578-3	2.574-3	2.585-3	2.615-3	2.667-3	2.747-3	2.855-3	2.983-3	3.094-3
17	47	5.482-3	4.624-3	4.025-3	3.580-3	3.222-3	2.909-3	2.619-3	2.349-3	2.103-3	1.888-3	1.702-3
17	48	4.687-3	4.567-3	4.405-3	4.189-3	3.910-3	3.567-3	3.170-3	2.740-3	2.306-3	1.897-3	1.531-3
17	49	1.419-2	1.429-2	1.445-2	1.471-2	1.509-2	1.565-2	1.642-2	1.741-2	1.861-2	1.993-2	2.106-2
17	50	1.043-3	1.039-3	1.031-3	1.021-3	1.006-3	9.891-4	9.690-4	9.471-4	9.244-4	9.021-4	8.750-4
17	51	2.729-4	2.638-4	2.538-4	2.420-4	2.279-4	2.113-4	1.927-4	1.735-4	1.549-4	1.380-4	1.229-4
17	52	5.156-4	5.028-4	4.887-4	4.721-4	4.518-4	4.273-4	3.990-4	3.676-4	3.348-4	3.019-4	2.690-4
17	53	2.809-3	2.812-3	2.814-3	2.816-3	2.816-3	2.807-3	2.781-3	2.727-3	2.636-3	2.503-3	2.322-3
18	19	1.663-1	1.245-1	9.228-2	6.786-2	4.961-2	3.612-2	2.623-2	1.896-2	1.360-2	9.636-3	6.731-3
18	20	6.315-1	5.581-1	4.961-1	4.433-1	3.989-1	3.628-1	3.345-1	3.128-1	2.962-1	2.836-1	2.722-1
18	21	1.825-0	1.725-0	1.544-0	1.289-0	1.006-0	7.453-1	5.341-1	3.759-1	2.632-1	1.851-1	1.318-1
18	22	6.068-2	4.820-2	3.805-2	2.992-2	2.347-2	1.839-2	1.444-2	1.140-2	9.112-3	7.443-3	6.254-3
18	23	2.032-1	1.611-1	1.274-1	1.005-1	7.915-2	6.223-2	4.887-2	3.838-2	3.027-2	2.416-2	1.964-2
18	24	4.919-1	4.275-1	3.710-1	3.214-1	2.786-1	2.433-1	2.151-1	1.933-1	1.768-1	1.647-1	1.552-1
18	25	1.903-1	1.823-1	1.663-1	1.436-1	1.183-1	9.419-2	7.306-2	5.547-2	4.128-2	3.012-2	2.159-2
18	26	8.097-2	7.845-2	7.281-2	6.486-2	5.584-2	4.677-2	3.821-2	3.042-2	2.356-2	1.771-2	1.292-2
18	27	1.108-2	1.034-2	9.732-3	9.172-3	8.607-3	7.995-3	7.325-3	6.618-3	5.917-3	5.276-3	4.710-3
18	28	2.436-1	2.427-1	2.428-1	2.440-1	2.469-1	2.518-1	2.597-1	2.712-1	2.870-1	3.076-1	3.295-1
18	29	3.028-0	3.039-0	3.062-0	3.104-0	3.170-0	3.271-0	3.417-0	3.619-0	3.886-0	4.221-0	4.571-0
18	30	2.287-2	2.215-2	2.132-2	2.040-2	1.935-2	1.815-2	1.679-2	1.536-2	1.394-2	1.266-2	1.155-2
18	31	3.766-3	3.690-3	3.584-3	3.435-3	3.233-3	2.967-3	2.640-3	2.265-3	1.868-3	1.478-3	1.125-3
18	32	2.207-2	2.194-2	2.178-2	2.157-2	2.132-2	2.104-2	2.077-2	2.058-2	2.053-2	2.066-2	2.081-2
18	33	5.310-2	5.245-2	5.152-2	5.024-2	4.854-2	4.640-2	4.388-2	4.116-2	3.850-2	3.614-2	3.410-2
18	34	7.937-2	7.802-2	7.600-2	7.309-2	6.905-2	6.373-2	5.718-2	4.970-2	4.184-2	3.424-2	2.740-2
18	35	5.278-3	5.218-3	5.090-3	4.878-3	4.576-3	4.182-3	3.703-3	3.162-3	2.596-3	2.047-3	1.552-3
18	36	2.860-2	2.552-2	2.138-2	1.671-2	1.231-2	8.670-3	5.936-3	4.006-3	2.698-3	1.835-3	1.273-3
18	37	4.117-3	3.849-3	3.309-3	2.626-3	1.949-3	1.378-3	9.422-4	6.299-4	4.149-4	2.706-4	1.752-4
18	38	1.062-3	8.677-4	6.728-4	4.979-4	3.573-4	2.533-4	1.805-4	1.316-4	9.974-5	7.936-5	6.623-5
18	39	3.126-3	2.561-3	1.999-3	1.498-3	1.094-3	7.903-4	5.714-4	4.166-4	3.079-4	2.316-4	1.778-4
18	40	1.542-2	1.384-2	1.136-2	8.727-3	6.462-3	4.747-3	3.558-3	2.795-3	2.348-3	2.120-3	2.016-3
18	41	1.632-3	1.428-3	1.164-3	9.015-4	6.768-4	5.011-4	3.697-4	2.729-4	2.016-4	1.491-4	1.104-4
18	42	4.643-4	3.799-4	3.104-4	2.560-4	2.141-4	1.813-4	1.547-4	1.329-4	1.153-4	1.015-4	9.072-5
18	43	1.444-3	1.213-3	1.026-3	8.824-4	7.711-4	6.819-4	6.065-4	5.406-4	4.834-4	4.353-4	3.949-4
18	44	1.882-2	1.716-2	1.584-2	1.501-2	1.470-2	1.490-2	1.561-2	1.685-2	1.865-2	2.101-2	2.361-2

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
18	45	1.221-3	1.068-3	9.302-4	8.101-4	7.032-4	6.033-4	5.069-4	4.136-4	3.262-4	2.483-4	1.827-4
18	46	4.365-4	2.965-4	1.987-4	1.328-4	8.920-5	6.054-5	4.168-5	2.918-5	2.079-5	1.511-5	1.122-5
18	47	2.366-3	1.763-3	1.349-3	1.060-3	8.530-4	6.948-4	5.659-4	4.554-4	3.589-4	2.754-4	2.052-4
18	48	3.254-2	3.255-2	3.263-2	3.280-2	3.314-2	3.370-2	3.459-2	3.585-2	3.752-2	3.977-2	4.288-2
18	49	6.051-3	5.899-3	5.679-3	5.375-3	4.976-3	4.483-3	3.912-3	3.294-3	2.670-3	2.081-3	1.562-3
18	50	1.722-4	1.653-4	1.571-4	1.470-4	1.347-4	1.205-4	1.052-4	8.989-5	7.577-5	6.365-5	5.367-5
18	51	7.267-4	7.141-4	6.975-4	6.755-4	6.470-4	6.120-4	5.719-4	5.290-4	4.862-4	4.457-4	4.068-4
18	52	1.533-2	1.536-2	1.537-2	1.535-2	1.528-2	1.518-2	1.503-2	1.484-2	1.463-2	1.440-2	1.408-2
18	53	6.793-4	6.609-4	6.339-4	5.965-4	5.475-4	4.874-4	4.191-4	3.469-4	2.764-4	2.121-4	1.571-4
19	20	4.499-1	3.953-1	3.363-1	2.763-1	2.205-1	1.726-1	1.337-1	1.030-1	7.920-2	6.088-2	4.690-2
19	21	2.286-1	1.997-1	1.740-1	1.503-1	1.292-1	1.116-1	9.768-2	8.717-2	7.944-2	7.385-2	6.946-2
19	22	6.796-2	6.071-2	5.162-2	4.188-2	3.277-2	2.502-2	1.883-2	1.402-2	1.032-2	7.486-3	5.341-3
19	23	5.867-1	5.676-1	5.156-1	4.356-1	3.451-1	2.610-1	1.923-1	1.405-1	1.033-1	7.719-2	5.900-2
19	24	3.795-1	3.539-1	3.192-1	2.768-1	2.331-1	1.942-1	1.629-1	1.394-1	1.224-1	1.104-1	1.016-1
19	25	1.157-1	1.083-1	9.835-2	8.577-2	7.226-2	5.942-2	4.801-2	3.824-2	3.004-2	2.334-2	1.798-2
19	26	7.621-2	7.916-2	7.371-2	6.244-2	4.921-2	3.692-2	2.681-2	1.906-2	1.335-2	9.234-3	6.330-3
19	27	2.136-0	2.141-0	2.156-0	2.184-0	2.232-0	2.306-0	2.415-0	2.566-0	2.763-0	3.009-0	3.270-0
19	28	3.801-2	3.572-2	3.375-2	3.202-2	3.038-2	2.874-2	2.709-2	2.548-2	2.406-2	2.293-2	2.207-2
19	29	2.104-2	1.872-2	1.692-2	1.553-2	1.441-2	1.345-2	1.260-2	1.184-2	1.120-2	1.066-2	9.998-3
19	30	8.019-2	7.996-2	7.992-2	8.014-2	8.068-2	8.172-2	8.352-2	8.639-2	9.057-2	9.577-2	9.938-2
19	31	9.116-1	9.175-1	9.274-1	9.427-1	9.656-1	9.991-1	1.047-0	1.114-0	1.200-0	1.309-0	1.425-0
19	32	1.405-2	1.376-2	1.336-2	1.281-2	1.207-2	1.113-2	9.985-3	8.713-3	7.407-3	6.176-3	5.091-3
19	33	1.086-1	1.094-1	1.104-1	1.120-1	1.144-1	1.180-1	1.231-1	1.302-1	1.395-1	1.514-1	1.639-1
19	34	1.737-2	1.701-2	1.649-2	1.575-2	1.474-2	1.344-2	1.188-2	1.015-2	8.353-3	6.646-3	5.126-3
19	35	9.239-3	9.302-3	9.374-3	9.452-3	9.545-3	9.680-3	9.900-3	1.025-2	1.077-2	1.150-2	1.236-2
19	36	1.320-2	1.201-2	1.023-2	8.081-3	5.981-3	4.213-3	2.870-3	1.914-3	1.261-3	8.274-4	5.434-4
19	37	2.803-3	2.499-3	2.098-3	1.639-3	1.203-3	8.422-4	5.708-4	3.787-4	2.481-4	1.615-4	1.050-4
19	38	4.189-4	3.369-4	2.573-4	1.881-4	1.337-4	9.361-5	6.531-5	4.575-5	3.232-5	2.305-5	1.658-5
19	39	2.400-3	2.031-3	1.616-3	1.221-3	8.946-4	6.479-4	4.719-4	3.501-4	2.665-4	2.086-4	1.671-4
19	40	1.167-3	9.740-4	7.637-4	5.690-4	4.102-4	2.910-4	2.056-4	1.461-4	1.048-4	7.594-5	5.556-5
19	41	1.311-3	1.186-3	9.837-4	7.614-4	5.635-4	4.073-4	2.920-4	2.096-4	1.514-4	1.104-4	8.133-5
19	42	5.910-4	5.237-4	4.665-4	4.198-4	3.812-4	3.478-4	3.176-4	2.894-4	2.631-4	2.395-4	2.181-4
19	43	2.114-3	1.908-3	1.725-3	1.578-3	1.465-3	1.376-3	1.300-3	1.230-3	1.159-3	1.087-3	1.009-3
19	44	3.888-4	3.327-4	2.828-4	2.411-4	2.061-4	1.756-4	1.478-4	1.220-4	9.838-5	7.757-5	6.000-5
19	45	7.496-4	6.436-4	5.233-4	4.150-4	3.269-4	2.576-4	2.029-4	1.592-4	1.239-4	9.608-5	7.457-5
19	46	1.262-3	1.226-3	1.178-3	1.113-3	1.029-3	9.272-4	8.095-4	6.824-4	5.541-4	4.331-4	3.262-4
19	47	1.221-2	1.219-2	1.219-2	1.224-2	1.236-2	1.257-2	1.289-2	1.333-2	1.387-2	1.447-2	1.495-2
19	48	1.033-3	1.005-3	9.674-4	9.160-4	8.493-4	7.671-4	6.719-4	5.688-4	4.642-4	3.653-4	2.780-4
19	49	1.335-3	1.317-3	1.290-3	1.255-3	1.211-3	1.158-3	1.100-3	1.042-3	9.883-4	9.419-4	8.993-4
19	50	4.769-4	4.792-4	4.813-4	4.835-4	4.857-4	4.870-4	4.860-4	4.804-4	4.683-4	4.486-4	4.197-4
19	51	1.958-3	1.955-3	1.954-3	1.954-3	1.952-3	1.945-3	1.927-3	1.893-3	1.838-3	1.762-3	1.657-3
19	52	2.378-4	2.292-4	2.185-4	2.052-4	1.887-4	1.693-4	1.479-4	1.259-4	1.050-4	8.629-5	7.029-5
19	53	5.840-4	5.761-4	5.643-4	5.478-4	5.260-4	4.994-4	4.690-4	4.370-4	4.060-4	3.780-4	3.525-4

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
20	21	7.720-1	7.218-1	6.575-1	5.785-1	4.947-1	4.176-1	3.534-1	3.032-1	2.654-1	2.374-1	2.160-1
20	22	1.824-1	1.902-1	1.820-1	1.595-1	1.299-1	1.008-1	7.639-2	5.788-2	4.462-2	3.543-2	2.904-2
20	23	4.161-1	4.160-1	3.892-1	3.351-1	2.663-1	1.984-1	1.412-1	9.760-2	6.625-2	4.453-2	2.977-2
20	24	1.135-0	1.095-0	9.932-1	8.363-1	6.553-1	4.848-1	3.445-1	2.387-1	1.631-1	1.107-1	7.505-2
20	25	2.705-1	2.424-1	2.108-1	1.754-1	1.404-1	1.093-1	8.335-2	6.258-2	4.625-2	3.361-2	2.400-2
20	26	1.989-1	2.142-1	2.014-1	1.706-1	1.343-1	1.010-1	7.410-2	5.386-2	3.922-2	2.889-2	2.168-2
20	27	1.916-1	1.851-1	1.808-1	1.789-1	1.792-1	1.819-1	1.874-1	1.961-1	2.083-1	2.243-1	2.418-1
20	28	1.958-0	1.958-0	1.968-0	1.991-0	2.033-0	2.101-0	2.199-0	2.335-0	2.513-0	2.736-0	2.969-0
20	29	9.236-2	7.862-2	6.835-2	6.082-2	5.518-2	5.077-2	4.720-2	4.429-2	4.205-2	4.050-2	3.935-2
20	30	5.826-2	5.748-2	5.698-2	5.672-2	5.671-2	5.701-2	5.781-2	5.932-2	6.169-2	6.459-2	6.585-2
20	31	7.477-3	7.288-3	7.047-3	6.728-3	6.305-3	5.763-3	5.104-3	4.360-3	3.580-3	2.826-3	2.147-3
20	32	1.726-0	1.738-0	1.756-0	1.785-0	1.827-0	1.890-0	1.980-0	2.104-0	2.266-0	2.470-0	2.694-0
20	33	9.845-1	9.918-1	1.002-0	1.018-0	1.041-0	1.075-0	1.123-0	1.190-0	1.278-0	1.388-0	1.506-0
20	34	3.237-2	3.174-2	3.082-2	2.949-2	2.768-2	2.535-2	2.254-2	1.938-2	1.611-2	1.299-2	1.022-2
20	35	4.959-3	4.883-3	4.746-3	4.533-3	4.235-3	3.849-3	3.384-3	2.865-3	2.330-3	1.821-3	1.369-3
20	36	2.421-2	2.160-2	1.816-2	1.424-2	1.050-2	7.394-3	5.044-3	3.378-3	2.244-3	1.494-3	1.006-3
20	37	2.716-3	2.532-3	2.193-3	1.753-3	1.308-3	9.276-4	6.347-4	4.243-4	2.794-4	1.821-4	1.179-4
20	38	1.282-3	9.701-4	7.153-4	5.187-4	3.746-4	2.731-4	2.030-4	1.549-4	1.216-4	9.810-5	8.071-5
20	39	2.079-3	1.883-3	1.562-3	1.205-3	8.842-4	6.312-4	4.457-4	3.150-4	2.245-4	1.621-4	1.188-4
20	40	5.409-3	4.718-3	3.813-3	2.887-3	2.090-3	1.477-3	1.035-3	7.300-4	5.226-4	3.821-4	2.857-4
20	41	1.297-3	1.228-3	1.057-3	8.424-4	6.387-4	4.710-4	3.428-4	2.483-4	1.796-4	1.298-4	9.358-5
20	42	9.014-4	7.522-4	6.301-4	5.372-4	4.685-4	4.171-4	3.770-4	3.443-4	3.164-4	2.924-4	2.707-4
20	43	1.993-3	1.561-3	1.202-3	9.306-4	7.343-4	5.938-4	4.921-4	4.173-4	3.624-4	3.231-4	2.951-4
20	44	6.415-3	5.515-3	4.695-3	4.042-3	3.556-3	3.198-3	2.925-3	2.702-3	2.508-3	2.329-3	2.153-3
20	45	2.431-3	1.852-3	1.373-3	1.012-3	7.513-4	5.638-4	4.268-4	3.239-4	2.449-4	1.836-4	1.362-4
20	46	7.826-3	7.821-3	7.850-3	7.927-3	8.065-3	8.277-3	8.575-3	8.962-3	9.425-3	9.932-3	1.035-2
20	47	1.113-2	1.084-2	1.062-2	1.045-2	1.031-2	1.022-2	1.018-2	1.021-2	1.032-2	1.051-2	1.067-2
20	48	4.612-3	4.554-3	4.477-3	4.375-3	4.246-3	4.090-3	3.913-3	3.725-3	3.537-3	3.361-3	3.183-3
20	49	3.720-3	3.701-3	3.678-3	3.653-3	3.630-3	3.613-3	3.614-3	3.639-3	3.694-3	3.777-3	3.848-3
20	50	3.189-4	3.147-4	3.091-4	3.015-4	2.914-4	2.785-4	2.631-4	2.455-4	2.265-4	2.073-4	1.880-4
20	51	6.872-4	6.817-4	6.739-4	6.635-4	6.505-4	6.351-4	6.175-4	5.978-4	5.761-4	5.521-4	5.230-4
20	52	4.942-3	4.927-3	4.913-3	4.900-3	4.885-3	4.863-3	4.825-3	4.761-3	4.659-3	4.509-3	4.283-3
20	53	7.833-4	7.657-4	7.398-4	7.034-4	6.553-4	5.953-4	5.257-4	4.503-4	3.743-4	3.028-4	2.390-4
21	22	9.026-2	7.114-2	5.520-2	4.235-2	3.224-2	2.442-2	1.838-2	1.371-2	1.008-2	7.286-3	5.161-3
21	23	4.082-1	3.733-1	3.360-1	2.947-1	2.536-1	2.173-1	1.882-1	1.664-1	1.507-1	1.395-1	1.308-1
21	24	8.824-1	8.349-1	7.603-1	6.546-1	5.342-1	4.200-1	3.246-1	2.508-1	1.962-1	1.569-1	1.286-1
21	25	4.579-1	4.300-1	3.890-1	3.336-1	2.730-1	2.160-1	1.672-1	1.273-1	9.563-2	7.094-2	5.207-2
21	26	1.665-1	1.734-1	1.615-1	1.367-1	1.078-1	8.097-2	5.889-2	4.189-2	2.929-2	2.018-2	1.373-2
21	27	3.117-2	2.813-2	2.579-2	2.399-2	2.257-2	2.138-2	2.038-2	1.957-2	1.900-2	1.873-2	1.864-2
21	28	4.020-1	3.959-1	3.928-1	3.929-1	3.965-1	4.046-1	4.182-1	4.384-1	4.661-1	5.017-1	5.390-1
21	29	6.391-0	6.415-0	6.465-0	6.555-0	6.705-0	6.936-0	7.269-0	7.723-0	8.312-0	9.037-0	9.759-0
21	30	3.921-1	3.932-1	3.958-1	4.003-1	4.076-1	4.189-1	4.358-1	4.596-1	4.918-1	5.375-1	6.073-1
21	31	5.490-3	5.390-3	5.289-3	5.178-3	5.050-3	4.909-3	4.763-3	4.629-3	4.528-3	4.473-3	4.435-3

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
21	32	1.711-2	1.674-2	1.629-2	1.572-2	1.498-2	1.407-2	1.302-2	1.190-2	1.079-2	9.795-3	8.933-3
21	33	1.054-0	1.061-0	1.072-0	1.088-0	1.112-0	1.148-0	1.199-0	1.270-0	1.364-0	1.482-0	1.608-0
21	34	5.375-2	5.304-2	5.198-2	5.049-2	4.849-2	4.598-2	4.309-2	4.007-2	3.725-2	3.499-2	3.333-2
21	35	2.808-3	2.755-3	2.661-3	2.517-3	2.320-3	2.071-3	1.782-3	1.474-3	1.172-3	8.996-4	6.715-4
21	36	2.612-2	2.398-2	2.072-2	1.661-2	1.242-2	8.813-3	6.026-3	4.023-3	2.646-3	1.726-3	1.121-3
21	37	2.086-3	1.915-3	1.632-3	1.288-3	9.523-4	6.709-4	4.574-4	3.054-4	2.016-4	1.325-4	8.734-5
21	38	4.024-4	3.584-4	2.936-4	2.246-4	1.639-4	1.165-4	8.182-5	5.734-5	4.029-5	2.843-5	2.014-5
21	39	2.214-3	1.918-3	1.552-3	1.189-3	8.819-4	6.461-4	4.760-4	3.574-4	2.762-4	2.207-4	1.820-4
21	40	5.995-3	5.273-3	4.269-3	3.243-3	2.369-3	1.701-3	1.222-3	8.887-4	6.594-4	5.001-4	3.863-4
21	41	1.277-3	1.141-3	9.442-4	7.371-4	5.561-4	4.138-4	3.082-4	2.319-4	1.773-4	1.385-4	1.107-4
21	42	3.824-4	3.260-4	2.782-4	2.391-4	2.068-4	1.788-4	1.537-4	1.305-4	1.095-4	9.086-5	7.472-5
21	43	1.626-3	1.454-3	1.307-3	1.189-3	1.098-3	1.026-3	9.650-4	9.115-4	8.635-4	8.212-4	7.817-4
21	44	4.236-3	3.797-3	3.417-3	3.110-3	2.866-3	2.661-3	2.476-3	2.297-3	2.116-3	1.935-3	1.751-3
21	45	9.652-4	8.408-4	7.285-4	6.357-4	5.614-4	5.018-4	4.544-4	4.187-4	3.962-4	3.889-4	3.936-4
21	46	1.153-3	1.005-3	8.869-4	7.879-4	6.979-4	6.101-4	5.218-4	4.337-4	3.487-4	2.705-4	2.025-4
21	47	8.478-3	8.134-3	7.909-3	7.779-3	7.730-3	7.755-3	7.851-3	8.017-3	8.248-3	8.550-3	8.914-3
21	48	2.332-2	2.328-2	2.328-2	2.335-2	2.351-2	2.381-2	2.429-2	2.495-2	2.580-2	2.675-2	2.735-2
21	49	4.796-3	4.684-3	4.523-3	4.299-3	4.006-3	3.643-3	3.224-3	2.771-3	2.314-3	1.884-3	1.503-3
21	50	2.305-4	2.253-4	2.189-4	2.109-4	2.006-4	1.879-4	1.728-4	1.557-4	1.376-4	1.192-4	1.012-4
21	51	1.082-3	1.076-3	1.069-3	1.060-3	1.046-3	1.025-3	9.946-4	9.518-4	8.958-4	8.273-4	7.469-4
21	52	2.988-3	2.987-3	2.987-3	2.988-3	2.987-3	2.977-3	2.947-3	2.883-3	2.774-3	2.612-3	2.394-3
21	53	1.025-3	1.006-3	9.780-4	9.380-4	8.843-4	8.168-4	7.379-4	6.524-4	5.668-4	4.872-4	4.164-4
22	23	2.546-1	2.524-1	2.332-1	1.997-1	1.598-1	1.216-1	8.951-2	6.453-2	4.586-2	3.221-2	2.237-2
22	24	2.273-1	2.054-1	1.840-1	1.651-1	1.495-1	1.377-1	1.292-1	1.235-1	1.198-1	1.177-1	1.157-1
22	25	4.353-2	3.770-2	3.215-2	2.672-2	2.166-2	1.723-2	1.348-2	1.036-2	7.810-3	5.751-3	4.133-3
22	26	2.258-2	2.204-2	2.011-2	1.722-2	1.406-2	1.111-2	8.566-3	6.466-3	4.779-3	3.453-3	2.439-3
22	27	1.402-2	1.116-2	8.958-3	7.303-3	6.035-3	5.010-3	4.130-3	3.343-3	2.636-3	2.018-3	1.497-3
22	28	1.650-2	1.335-2	1.100-2	9.341-3	8.192-3	7.404-3	6.871-3	6.529-3	6.339-3	6.273-3	6.263-3
22	29	5.799-3	4.671-3	3.803-3	3.148-3	2.640-3	2.222-3	1.854-3	1.517-3	1.207-3	9.302-4	6.921-4
22	30	8.042-3	7.744-3	7.423-3	7.043-3	6.569-3	5.980-3	5.279-3	4.494-3	3.680-3	2.896-3	2.194-3
22	31	3.152-3	3.089-3	2.999-3	2.873-3	2.699-3	2.471-3	2.191-3	1.872-3	1.537-3	1.212-3	9.192-4
22	32	8.453-1	8.511-1	8.603-1	8.744-1	8.954-1	9.264-1	9.712-1	1.033-0	1.113-0	1.213-0	1.317-0
22	33	1.739-3	1.694-3	1.632-3	1.548-3	1.438-3	1.304-3	1.149-3	9.801-4	8.087-4	6.453-4	4.987-4
22	34	6.850-3	6.720-3	6.524-3	6.244-3	5.859-3	5.357-3	4.745-3	4.052-3	3.325-3	2.621-3	1.984-3
22	35	1.272-3	1.251-3	1.217-3	1.165-3	1.093-3	9.974-4	8.808-4	7.491-4	6.120-4	4.802-4	3.624-4
22	36	4.417-3	4.285-3	3.812-3	3.099-3	2.337-3	1.669-3	1.149-3	7.744-4	5.167-4	3.450-4	2.329-4
22	37	5.685-4	5.390-4	4.715-4	3.796-4	2.849-4	2.029-4	1.394-4	9.358-5	6.185-5	4.045-5	2.626-5
22	38	5.961-4	4.943-4	3.839-4	2.847-4	2.057-4	1.477-4	1.072-4	7.962-5	6.115-5	4.876-5	4.019-5
22	39	4.713-4	3.780-4	2.874-4	2.098-4	1.492-4	1.049-4	7.361-5	5.202-5	3.714-5	2.679-5	1.948-5
22	40	1.016-3	7.601-4	5.526-4	3.926-4	2.756-4	1.931-4	1.365-4	9.783-5	7.139-5	5.303-5	3.998-5
22	41	2.625-4	2.158-4	1.688-4	1.269-4	9.306-5	6.739-5	4.857-5	3.496-5	2.510-5	1.795-5	1.274-5
22	42	1.199-3	1.064-3	9.418-4	8.442-4	7.713-4	7.176-4	6.763-4	6.416-4	6.098-4	5.785-4	5.443-4
22	43	1.854-4	1.553-4	1.278-4	1.049-4	8.634-5	7.124-5	5.854-5	4.757-5	3.799-5	2.974-5	2.280-5

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
22	44	1.500-4	1.274-4	1.080-4	9.226-5	7.968-5	6.935-5	6.051-5	5.270-5	4.575-5	3.964-5	3.425-5
22	45	1.322-4	1.120-4	9.266-5	7.604-5	6.227-5	5.075-5	4.086-5	3.221-5	2.470-5	1.838-5	1.327-5
22	46	7.072-4	7.052-4	7.041-4	7.042-4	7.056-4	7.086-4	7.132-4	7.195-4	7.268-4	7.341-4	7.346-4
22	47	1.447-4	1.275-4	1.141-4	1.029-4	9.270-5	8.274-5	7.262-5	6.233-5	5.214-5	4.244-5	3.362-5
22	48	3.801-3	3.793-3	3.791-3	3.801-3	3.830-3	3.887-3	3.979-3	4.111-3	4.282-3	4.491-3	4.715-3
22	49	6.929-4	6.752-4	6.493-4	6.136-4	5.669-4	5.097-4	4.439-4	3.732-4	3.021-4	2.353-4	1.766-4
22	50	1.473-3	1.475-3	1.479-3	1.485-3	1.491-3	1.495-3	1.495-3	1.488-3	1.470-3	1.441-3	1.393-3
22	51	1.256-4	1.216-4	1.165-4	1.099-4	1.014-4	9.116-5	7.950-5	6.723-5	5.521-5	4.420-5	3.460-5
22	52	6.352-5	6.175-5	5.940-5	5.627-5	5.222-5	4.732-5	4.183-5	3.624-5	3.113-5	2.702-5	2.403-5
22	53	1.562-4	1.522-4	1.463-4	1.380-4	1.270-4	1.133-4	9.755-5	8.078-5	6.426-5	4.916-5	3.627-5
23	24	6.939-1	6.898-1	6.437-1	5.545-1	4.451-1	3.396-1	2.510-1	1.824-1	1.316-1	9.484-2	6.861-2
23	25	1.768-1	1.575-1	1.366-1	1.138-1	9.133-2	7.141-2	5.478-2	4.132-2	3.062-2	2.225-2	1.582-2
23	26	2.387-1	2.537-1	2.361-1	1.974-1	1.525-1	1.116-1	7.878-2	5.437-2	3.694-2	2.479-2	1.648-2
23	27	7.658-1	7.646-1	7.673-1	7.753-1	7.906-1	8.157-1	8.532-1	9.053-1	9.736-1	1.059-0	1.150-0
23	28	4.388-2	3.599-2	2.991-2	2.529-2	2.167-2	1.864-2	1.594-2	1.346-2	1.118-2	9.180-3	7.487-3
23	29	3.404-2	2.545-2	1.917-2	1.474-2	1.165-2	9.456-3	7.850-3	6.639-3	5.710-3	4.998-3	4.432-3
23	30	2.622-1	2.627-1	2.643-1	2.673-1	2.720-1	2.794-1	2.903-1	3.057-1	3.263-1	3.525-1	3.797-1
23	31	2.541-1	2.557-1	2.583-1	2.623-1	2.683-1	2.773-1	2.903-1	3.082-1	3.316-1	3.610-1	3.925-1
23	32	8.926-1	8.984-1	9.077-1	9.220-1	9.434-1	9.753-1	1.021-0	1.085-0	1.168-0	1.272-0	1.384-0
23	33	6.758-1	6.812-1	6.890-1	7.006-1	7.176-1	7.424-1	7.779-1	8.265-1	8.901-1	9.696-1	1.055-0
23	34	1.961-2	1.923-2	1.866-2	1.784-2	1.672-2	1.526-2	1.349-2	1.150-2	9.414-3	7.401-3	5.590-3
23	35	3.241-3	3.188-3	3.101-3	2.969-3	2.784-3	2.542-3	2.247-3	1.917-3	1.576-3	1.251-3	9.631-4
23	36	1.263-2	1.228-2	1.099-2	8.989-3	6.810-3	4.875-3	3.360-3	2.263-3	1.508-3	1.003-3	6.729-4
23	37	1.622-3	1.522-3	1.323-3	1.061-3	7.934-4	5.636-4	3.864-4	2.587-4	1.706-4	1.113-4	7.207-5
23	38	4.820-4	4.101-4	3.248-4	2.442-4	1.782-4	1.288-4	9.387-5	6.988-5	5.340-5	4.175-5	3.308-5
23	39	2.826-3	2.484-3	2.000-3	1.503-3	1.079-3	7.550-4	5.232-4	3.636-4	2.558-4	1.838-4	1.353-4
23	40	3.402-3	3.258-3	2.759-3	2.134-3	1.557-3	1.099-3	7.645-4	5.308-4	3.711-4	2.626-4	1.885-4
23	41	1.105-3	9.489-4	7.582-4	5.725-4	4.169-4	2.981-4	2.120-4	1.512-4	1.087-4	7.912-5	5.840-5
23	42	1.904-3	1.703-3	1.519-3	1.369-3	1.252-3	1.160-3	1.083-3	1.013-3	9.435-4	8.733-4	7.988-4
23	43	1.527-3	1.333-3	1.160-3	1.024-3	9.215-4	8.457-4	7.874-4	7.398-4	6.988-4	6.620-4	6.254-4
23	44	5.209-4	4.408-4	3.723-4	3.171-4	2.733-4	2.376-4	2.071-4	1.802-4	1.562-4	1.351-4	1.165-4
23	45	3.840-4	3.265-4	2.724-4	2.262-4	1.878-4	1.553-4	1.270-4	1.019-4	7.978-5	6.082-5	4.520-5
23	46	8.579-5	6.721-5	5.425-5	4.547-5	3.966-5	3.587-5	3.337-5	3.157-5	2.998-5	2.825-5	2.610-5
23	47	1.883-3	1.820-3	1.772-3	1.736-3	1.707-3	1.683-3	1.663-3	1.646-3	1.632-3	1.621-3	1.599-3
23	48	1.180-2	1.178-2	1.178-2	1.181-2	1.190-2	1.208-2	1.235-2	1.275-2	1.326-2	1.384-2	1.430-2
23	49	2.294-3	2.239-3	2.160-3	2.051-3	1.908-3	1.733-3	1.531-3	1.313-3	1.094-3	8.884-4	7.062-4
23	50	2.356-3	2.355-3	2.357-3	2.359-3	2.358-3	2.351-3	2.330-3	2.291-3	2.228-3	2.140-3	2.020-3
23	51	1.595-3	1.592-3	1.590-3	1.587-3	1.585-3	1.582-3	1.578-3	1.571-3	1.560-3	1.544-3	1.512-3
23	52	2.335-4	2.265-4	2.173-4	2.051-4	1.896-4	1.707-4	1.493-4	1.271-4	1.056-4	8.674-5	7.118-5
23	53	4.387-4	4.276-4	4.111-4	3.881-4	3.575-4	3.195-4	2.757-4	2.288-4	1.825-4	1.400-4	1.036-4
24	25	3.701-1	3.366-1	2.958-1	2.475-1	1.982-1	1.537-1	1.167-1	8.708-2	6.397-2	4.620-2	3.278-2
24	26	2.370-1	2.536-1	2.439-1	2.115-1	1.688-1	1.270-1	9.215-2	6.539-2	4.586-2	3.205-2	2.245-2
24	27	2.797-1	2.774-1	2.767-1	2.779-1	2.815-1	2.880-1	2.986-1	3.139-1	3.345-1	3.610-1	3.898-1

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
24	28	2.467-0	2.471-0	2.488-0	2.520-0	2.576-0	2.663-0	2.791-0	2.966-0	3.194-0	3.478-0	3.775-0
24	29	1.047-1	8.044-2	6.261-2	4.978-2	4.036-2	3.311-2	2.715-2	2.203-2	1.756-2	1.382-2	1.120-2
24	30	3.999-1	4.009-1	4.035-1	4.081-1	4.156-1	4.270-1	4.441-1	4.682-1	5.002-1	5.365-1	5.586-1
24	31	3.446-3	3.302-3	3.150-3	2.971-3	2.754-3	2.491-3	2.187-3	1.856-3	1.520-3	1.202-3	9.191-4
24	32	1.592-2	1.539-2	1.486-2	1.423-2	1.347-2	1.256-2	1.150-2	1.038-2	9.264-3	8.255-3	7.373-3
24	33	2.067-0	2.083-0	2.107-0	2.142-0	2.194-0	2.269-0	2.377-0	2.526-0	2.720-0	2.963-0	3.221-0
24	34	3.121-2	3.059-2	2.966-2	2.834-2	2.653-2	2.418-2	2.135-2	1.818-2	1.488-2	1.173-2	8.906-3
24	35	4.145-3	4.073-3	3.954-3	3.773-3	3.522-3	3.195-3	2.802-3	2.364-3	1.915-3	1.490-3	1.115-3
24	36	2.139-2	2.011-2	1.764-2	1.427-2	1.075-2	7.667-3	5.270-3	3.540-3	2.350-3	1.556-3	1.037-3
24	37	1.982-3	1.865-3	1.624-3	1.304-3	9.761-4	6.937-4	4.756-4	3.183-4	2.098-4	1.368-4	8.849-5
24	38	8.141-4	6.541-4	4.981-4	3.625-4	2.559-4	1.778-4	1.231-4	8.585-5	6.069-5	4.373-5	3.218-5
24	39	2.345-3	2.126-3	1.753-3	1.342-3	9.772-4	6.918-4	4.842-4	3.392-4	2.396-4	1.714-4	1.241-4
24	40	5.103-3	4.688-3	3.884-3	2.984-3	2.187-3	1.565-3	1.115-3	8.004-4	5.847-4	4.368-4	3.337-4
24	41	1.316-3	1.232-3	1.039-3	8.088-4	5.984-4	4.304-4	3.059-4	2.169-4	1.543-4	1.103-4	7.936-5
24	42	8.700-4	7.606-4	6.640-4	5.861-4	5.251-4	4.766-4	4.358-4	3.993-4	3.650-4	3.323-4	3.002-4
24	43	2.848-3	2.540-3	2.263-3	2.037-3	1.859-3	1.715-3	1.591-3	1.474-3	1.360-3	1.245-3	1.126-3
24	44	2.620-3	2.196-3	1.811-3	1.505-3	1.277-3	1.109-3	9.852-4	8.897-4	8.133-4	7.505-4	6.947-4
24	45	8.087-4	6.751-4	5.569-4	4.604-4	3.834-4	3.204-4	2.669-4	2.200-4	1.786-4	1.427-4	1.124-4
24	46	5.342-4	4.601-4	4.091-4	3.759-4	3.558-4	3.450-4	3.410-4	3.420-4	3.463-4	3.523-4	3.560-4
24	47	1.343-3	1.202-3	1.097-3	1.019-3	9.568-4	9.062-4	8.642-4	8.301-4	8.043-4	7.857-4	7.672-4
24	48	2.125-2	2.121-2	2.121-2	2.127-2	2.142-2	2.170-2	2.215-2	2.278-2	2.359-2	2.454-2	2.545-2
24	49	3.814-3	3.725-3	3.596-3	3.418-3	3.186-3	2.902-3	2.575-3	2.223-3	1.871-3	1.542-3	1.250-3
24	50	9.887-4	9.827-4	9.762-4	9.680-4	9.564-4	9.391-4	9.140-4	8.794-4	8.345-4	7.798-4	7.148-4
24	51	2.719-3	2.716-3	2.716-3	2.715-3	2.712-3	2.702-3	2.676-3	2.626-3	2.546-3	2.431-3	2.273-3
24	52	1.675-3	1.668-3	1.658-3	1.647-3	1.635-3	1.621-3	1.606-3	1.591-3	1.574-3	1.553-3	1.514-3
24	53	6.821-4	6.655-4	6.410-4	6.064-4	5.605-4	5.032-4	4.368-4	3.653-4	2.942-4	2.283-4	1.713-4
25	26	5.884-1	5.929-1	5.810-1	5.563-1	5.263-1	4.981-1	4.753-1	4.588-1	4.479-1	4.412-1	4.347-1
25	27	5.978-2	5.100-2	4.426-2	3.904-2	3.481-2	3.114-2	2.779-2	2.468-2	2.189-2	1.956-2	1.771-2
25	28	8.928-2	7.694-2	6.754-2	6.038-2	5.468-2	4.988-2	4.563-2	4.186-2	3.867-2	3.629-2	3.461-2
25	29	9.672-2	8.156-2	6.998-2	6.104-2	5.376-2	4.736-2	4.142-2	3.579-2	3.060-2	2.608-2	2.239-2
25	30	6.902-1	6.909-1	6.938-1	7.009-1	7.147-1	7.380-1	7.732-1	8.216-1	8.841-1	9.560-1	1.006-0
25	31	6.921-3	6.504-3	6.124-3	5.732-3	5.291-3	4.777-3	4.188-3	3.546-3	2.891-3	2.269-3	1.718-3
25	32	2.096-2	1.970-2	1.855-2	1.737-2	1.603-2	1.447-2	1.268-2	1.072-2	8.728-3	6.827-3	5.140-3
25	33	3.063-1	3.067-1	3.079-1	3.103-1	3.151-1	3.234-1	3.362-1	3.542-1	3.782-1	4.089-1	4.424-1
25	34	8.968-0	9.040-0	9.138-0	9.286-0	9.522-0	9.878-0	1.038+1	1.106+1	1.193+1	1.302+1	1.421+1
25	35	1.615-2	1.625-2	1.636-2	1.650-2	1.672-2	1.709-2	1.767-2	1.850-2	1.958-2	2.087-2	2.208-2
25	36	2.217-2	1.921-2	1.569-2	1.202-2	8.705-3	6.043-3	4.071-3	2.688-3	1.751-3	1.131-3	7.263-4
25	37	1.960-2	1.820-2	1.534-2	1.201-2	8.934-3	6.472-3	4.675-3	3.444-3	2.642-3	2.141-3	1.828-3
25	38	1.069-3	9.314-4	7.538-4	5.732-4	4.171-4	2.954-4	2.060-4	1.425-4	9.786-5	6.674-5	4.510-5
25	39	1.577-2	1.447-2	1.232-2	9.904-3	7.758-3	6.111-3	4.971-3	4.253-3	3.848-3	3.651-3	3.553-3
25	40	5.587-3	4.839-3	3.883-3	2.931-3	2.122-3	1.500-3	1.046-3	7.246-4	4.992-4	3.417-4	2.319-4
25	41	3.987-2	3.958-2	3.497-2	2.866-2	2.272-2	1.807-2	1.484-2	1.282-2	1.171-2	1.120-2	1.094-2
25	42	2.241-3	1.738-3	1.303-3	9.666-4	7.193-4	5.397-4	4.073-4	3.068-4	2.287-4	1.674-4	1.198-4

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
25	43	9.470-3	7.258-3	5.399-3	4.006-3	3.032-3	2.383-3	1.972-3	1.733-3	1.624-3	1.619-3	1.680-3
25	44	2.122-3	1.748-3	1.427-3	1.169-3	9.653-4	7.998-4	6.588-4	5.340-4	4.224-4	3.247-4	2.424-4
25	45	5.013-2	4.414-2	3.916-2	3.580-2	3.414-2	3.412-2	3.570-2	3.888-2	4.374-2	5.035-2	5.787-2
25	46	1.076-3	1.017-3	9.578-4	8.920-4	8.162-4	7.291-4	6.323-4	5.300-4	4.281-4	3.329-4	2.494-4
25	47	7.019-3	5.762-3	4.894-3	4.266-3	3.777-3	3.366-3	3.001-3	2.668-3	2.367-3	2.105-3	1.877-3
25	48	6.998-3	6.791-3	6.514-3	6.148-3	5.679-3	5.110-3	4.457-3	3.756-3	3.050-3	2.388-3	1.806-3
25	49	1.863-2	1.867-2	1.880-2	1.904-2	1.941-2	1.995-2	2.067-2	2.156-2	2.259-2	2.369-2	2.459-2
25	50	5.412-4	4.800-4	4.313-4	3.886-4	3.471-4	3.038-4	2.583-4	2.119-4	1.674-4	1.274-4	9.374-5
25	51	7.832-4	6.992-4	6.322-4	5.732-4	5.154-4	4.547-4	3.902-4	3.243-4	2.607-4	2.033-4	1.546-4
25	52	9.957-4	8.907-4	8.069-4	7.328-4	6.594-4	5.817-4	4.986-4	4.129-4	3.297-4	2.543-4	1.901-4
25	53	3.853-2	3.855-2	3.854-2	3.850-2	3.845-2	3.837-2	3.828-2	3.818-2	3.808-2	3.797-2	3.760-2
26	27	2.707-2	2.285-2	1.933-2	1.659-2	1.455-2	1.305-2	1.196-2	1.121-2	1.076-2	1.062-2	1.070-2
26	28	3.421-2	2.734-2	2.168-2	1.725-2	1.383-2	1.114-2	8.936-3	7.072-3	5.484-3	4.153-3	3.073-3
26	29	5.344-2	4.201-2	3.292-2	2.597-2	2.070-2	1.658-2	1.324-2	1.043-2	8.028-3	6.032-3	4.473-3
26	30	1.736-0	1.733-0	1.735-0	1.750-0	1.783-0	1.843-0	1.933-0	2.057-0	2.219-0	2.439-0	2.750-0
26	31	1.094-2	1.030-2	9.719-3	9.220-3	8.812-3	8.488-3	8.241-3	8.081-3	8.033-3	8.130-3	8.320-3
26	32	1.974-2	1.769-2	1.576-2	1.401-2	1.240-2	1.086-2	9.313-3	7.764-3	6.261-3	4.874-3	3.665-3
26	33	5.841-1	5.804-1	5.790-1	5.816-1	5.906-1	6.078-1	6.347-1	6.725-1	7.223-1	7.858-1	8.557-1
26	34	4.509-2	4.427-2	4.368-2	4.347-2	4.371-2	4.451-2	4.596-2	4.813-2	5.103-2	5.469-2	5.893-2
26	35	1.481-0	1.494-0	1.514-0	1.541-0	1.581-0	1.638-0	1.719-0	1.830-0	1.975-0	2.153-0	2.334-0
26	36	8.606-3	7.946-3	6.766-3	5.332-3	3.941-3	2.779-3	1.898-3	1.269-3	8.384-4	5.507-4	3.616-4
26	37	1.079-2	1.050-2	9.398-3	7.725-3	5.924-3	4.337-3	3.105-3	2.224-3	1.629-3	1.246-3	1.007-3
26	38	3.683-4	3.232-4	2.639-4	2.029-4	1.498-4	1.078-4	7.652-5	5.379-5	3.750-5	2.589-5	1.767-5
26	39	5.278-3	4.639-3	3.825-3	3.004-3	2.301-3	1.759-3	1.368-3	1.096-3	9.108-4	7.858-4	6.973-4
26	40	2.035-3	1.735-3	1.386-3	1.050-3	7.669-4	5.482-4	3.871-4	2.712-4	1.887-4	1.302-4	8.904-5
26	41	1.745-2	1.578-2	1.326-2	1.051-2	8.063-3	6.151-3	4.767-3	3.811-3	3.167-3	2.736-3	2.435-3
26	42	5.265-4	4.347-4	3.507-4	2.804-4	2.236-4	1.777-4	1.401-4	1.092-4	8.411-5	6.425-5	4.908-5
26	43	1.594-3	1.321-3	1.033-3	7.822-4	5.837-4	4.331-4	3.203-4	2.360-4	1.732-4	1.271-4	9.411-5
26	44	1.250-3	1.014-3	8.044-4	6.335-4	4.979-4	3.897-4	3.019-4	2.298-4	1.709-4	1.239-4	8.759-5
26	45	7.816-3	6.392-3	5.045-3	3.947-3	3.133-3	2.574-3	2.224-3	2.043-3	2.004-3	2.091-3	2.260-3
26	46	4.747-4	4.456-4	4.170-4	3.866-4	3.526-4	3.143-4	2.721-4	2.278-4	1.838-4	1.429-4	1.070-4
26	47	2.157-3	2.052-3	1.956-3	1.862-3	1.764-3	1.660-3	1.551-3	1.442-3	1.338-3	1.246-3	1.161-3
26	48	3.234-3	3.137-3	3.007-3	2.837-3	2.620-3	2.355-3	2.052-3	1.726-3	1.398-3	1.089-3	8.189-4
26	49	1.238-2	1.239-2	1.245-2	1.256-2	1.276-2	1.306-2	1.348-2	1.401-2	1.463-2	1.531-2	1.586-2
26	50	8.101-4	7.656-4	7.188-4	6.655-4	6.029-4	5.306-4	4.512-4	3.696-4	2.917-4	2.222-4	1.640-4
26	51	1.117-3	1.056-3	9.915-4	9.185-4	8.329-4	7.342-4	6.259-4	5.146-4	4.079-4	3.126-4	2.324-4
26	52	1.368-3	1.291-3	1.210-3	1.118-3	1.011-3	8.885-4	7.545-4	6.172-4	4.861-4	3.689-4	2.707-4
26	53	1.784-2	1.798-2	1.817-2	1.845-2	1.884-2	1.935-2	1.998-2	2.070-2	2.147-2	2.220-2	2.258-2
27	28	2.521-1	2.416-1	2.306-1	2.180-1	2.031-1	1.854-1	1.654-1	1.438-1	1.224-1	1.025-1	8.498-2
27	29	7.045-2	6.634-2	6.231-2	5.806-2	5.332-2	4.795-2	4.202-2	3.585-2	2.989-2	2.494-2	2.260-2
27	30	1.231-1	1.201-1	1.158-1	1.098-1	1.019-1	9.210-2	8.059-2	6.814-2	5.570-2	4.425-2	3.461-2
27	31	8.788-2	8.753-2	8.704-2	8.638-2	8.560-2	8.475-2	8.395-2	8.331-2	8.292-2	8.279-2	8.231-2
27	32	1.275-1	1.262-1	1.243-1	1.216-1	1.182-1	1.143-1	1.099-1	1.054-1	1.011-1	9.726-2	9.339-2

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
27	33	3.022-2	2.953-2	2.861-2	2.741-2	2.591-2	2.414-2	2.218-2	2.020-2	1.836-2	1.680-2	1.550-2
27	34	1.391-1	1.357-1	1.308-1	1.239-1	1.147-1	1.030-1	8.937-2	7.455-2	5.972-2	4.599-2	3.416-2
27	35	8.079-3	7.859-3	7.537-3	7.090-3	6.505-3	5.786-3	4.967-3	4.111-3	3.291-3	2.563-3	1.949-3
27	36	3.926-4	3.332-4	2.696-4	2.061-4	1.496-4	1.044-4	7.108-5	4.767-5	3.179-5	2.120-5	1.418-5
27	37	1.017-4	9.610-5	8.562-5	7.190-5	5.755-5	4.450-5	3.355-5	2.479-5	1.802-5	1.293-5	9.180-6
27	38	8.184-5	7.056-5	5.623-5	4.218-5	3.041-5	2.148-5	1.510-5	1.070-5	7.703-6	5.652-6	4.211-6
27	39	2.469-4	2.242-4	1.842-4	1.404-4	1.018-4	7.179-5	5.011-5	3.510-5	2.495-5	1.819-5	1.369-5
27	40	3.152-4	2.941-4	2.448-4	1.868-4	1.345-4	9.335-5	6.348-5	4.273-5	2.869-5	1.931-5	1.307-5
27	41	2.175-4	2.088-4	1.777-4	1.384-4	1.018-4	7.251-5	5.092-5	3.578-5	2.552-5	1.876-5	1.439-5
27	42	2.110-4	1.848-4	1.605-4	1.405-4	1.247-4	1.121-4	1.015-4	9.172-5	8.213-5	7.238-5	6.240-5
27	43	1.963-4	1.699-4	1.458-4	1.258-4	1.099-4	9.695-5	8.597-5	7.607-5	6.671-5	5.766-5	4.888-5
27	44	6.339-5	5.348-5	4.453-5	3.704-5	3.092-5	2.584-5	2.152-5	1.776-5	1.449-5	1.166-5	9.240-6
27	45	2.252-4	1.926-4	1.546-4	1.200-4	9.199-5	7.017-5	5.342-5	4.060-5	3.085-5	2.356-5	1.817-5
27	46	2.811-5	2.741-5	2.660-5	2.567-5	2.456-5	2.327-5	2.178-5	2.010-5	1.825-5	1.625-5	1.415-5
27	47	8.864-5	8.517-5	8.189-5	7.856-5	7.509-5	7.153-5	6.808-5	6.500-5	6.250-5	6.073-5	5.922-5
27	48	3.522-5	3.452-5	3.363-5	3.253-5	3.124-5	2.983-5	2.844-5	2.720-5	2.625-5	2.565-5	2.520-5
27	49	3.746-5	3.634-5	3.500-5	3.341-5	3.161-5	2.975-5	2.808-5	2.692-5	2.655-5	2.711-5	2.829-5
27	50	3.634-4	3.628-4	3.623-4	3.618-4	3.616-4	3.622-4	3.645-4	3.693-4	3.776-4	3.898-4	4.024-4
27	51	1.969-4	1.950-4	1.925-4	1.891-4	1.847-4	1.791-4	1.725-4	1.650-4	1.568-4	1.483-4	1.389-4
27	52	5.433-5	5.270-5	5.062-5	4.793-5	4.458-5	4.060-5	3.616-5	3.150-5	2.691-5	2.262-5	1.877-5
27	53	1.938-4	1.894-4	1.830-4	1.742-4	1.628-4	1.492-4	1.342-4	1.192-4	1.059-4	9.542-5	8.776-5
28	29	2.996-1	2.864-1	2.727-1	2.573-1	2.392-1	2.180-1	1.939-1	1.682-1	1.426-1	1.190-1	9.832-2
28	30	1.534-1	1.496-1	1.444-1	1.374-1	1.283-1	1.169-1	1.036-1	8.931-2	7.501-2	6.168-2	4.966-2
28	31	2.469-2	2.405-2	2.314-2	2.189-2	2.023-2	1.815-2	1.573-2	1.312-2	1.050-2	8.078-3	5.988-3
28	32	2.056-1	2.042-1	2.023-1	1.995-1	1.962-1	1.926-1	1.889-1	1.855-1	1.826-1	1.804-1	1.777-1
28	33	1.471-1	1.449-1	1.417-1	1.373-1	1.317-1	1.249-1	1.172-1	1.092-1	1.015-1	9.468-2	8.855-2
28	34	1.971-1	1.924-1	1.854-1	1.756-1	1.624-1	1.459-1	1.264-1	1.053-1	8.413-2	6.458-2	4.773-2
28	35	1.137-2	1.105-2	1.058-2	9.919-3	9.055-3	7.990-3	6.776-3	5.502-3	4.274-3	3.184-3	2.284-3
28	36	5.316-4	4.529-4	3.689-4	2.838-4	2.070-4	1.451-4	9.896-5	6.647-5	4.435-5	2.959-5	1.981-5
28	37	1.111-4	1.022-4	8.945-5	7.490-5	6.057-5	4.764-5	3.652-5	2.726-5	1.979-5	1.398-5	9.628-6
28	38	8.251-5	7.476-5	6.131-5	4.664-5	3.377-5	2.378-5	1.654-5	1.150-5	8.070-6	5.750-6	4.180-6
28	39	3.358-4	3.095-4	2.578-4	1.979-4	1.435-4	1.005-4	6.905-5	4.710-5	3.214-5	2.205-5	1.525-5
28	40	4.023-4	3.373-4	2.649-4	1.967-4	1.405-4	9.801-5	6.775-5	4.688-5	3.271-5	2.313-5	1.662-5
28	41	1.783-4	1.607-4	1.327-4	1.023-4	7.520-5	5.376-5	3.781-5	2.632-5	1.820-5	1.252-5	8.579-6
28	42	1.298-4	1.136-4	9.883-5	8.649-5	7.644-5	6.808-5	6.074-5	5.394-5	4.738-5	4.097-5	3.471-5
28	43	2.695-4	2.354-4	2.043-4	1.788-4	1.585-4	1.423-4	1.285-4	1.158-4	1.034-4	9.090-5	7.820-5
28	44	2.900-4	2.458-4	2.039-4	1.692-4	1.421-4	1.210-4	1.040-4	8.973-5	7.706-5	6.551-5	5.477-5
28	45	1.331-4	1.163-4	9.906-5	8.317-5	6.900-5	5.634-5	4.499-5	3.496-5	2.637-5	1.932-5	1.379-5
28	46	3.261-5	3.211-5	3.156-5	3.096-5	3.032-5	2.972-5	2.929-5	2.914-5	2.938-5	3.000-5	3.063-5
28	47	6.969-5	6.713-5	6.440-5	6.137-5	5.797-5	5.416-5	5.001-5	4.559-5	4.103-5	3.638-5	3.155-5
28	48	9.439-5	9.285-5	9.091-5	8.852-5	8.570-5	8.263-5	7.956-5	7.678-5	7.458-5	7.301-5	7.125-5
28	49	4.965-5	4.750-5	4.470-5	4.114-5	3.687-5	3.206-5	2.701-5	2.206-5	1.750-5	1.354-5	1.025-5
28	50	1.921-4	1.903-4	1.878-4	1.845-4	1.800-4	1.744-4	1.676-4	1.598-4	1.513-4	1.423-4	1.327-4

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
28	51	4.315-4	4.307-4	4.298-4	4.290-4	4.287-4	4.296-4	4.329-4	4.400-4	4.520-4	4.696-4	4.878-4
28	52	2.299-4	2.272-4	2.236-4	2.188-4	2.126-4	2.049-4	1.959-4	1.858-4	1.751-4	1.642-4	1.528-4
28	53	2.274-4	2.207-4	2.110-4	1.976-4	1.802-4	1.590-4	1.352-4	1.105-4	8.690-5	6.589-5	4.839-5
29	30	2.020-1	1.981-1	1.929-1	1.860-1	1.773-1	1.668-1	1.549-1	1.425-1	1.303-1	1.193-1	1.090-1
29	31	1.390-2	1.352-2	1.300-2	1.231-2	1.142-2	1.033-2	9.111-3	7.846-3	6.649-3	5.614-3	4.772-3
29	32	6.275-2	6.099-2	5.861-2	5.541-2	5.125-2	4.614-2	4.026-2	3.401-2	2.790-2	2.239-2	1.774-2
29	33	4.025-1	3.980-1	3.914-1	3.823-1	3.704-1	3.560-1	3.399-1	3.230-1	3.070-1	2.928-1	2.797-1
29	34	2.582-1	2.521-1	2.430-1	2.301-1	2.129-1	1.912-1	1.658-1	1.382-1	1.106-1	8.503-2	6.300-2
29	35	1.534-2	1.491-2	1.427-2	1.338-2	1.221-2	1.078-2	9.137-3	7.419-3	5.764-3	4.294-3	3.081-3
29	36	7.285-4	6.030-4	4.802-4	3.637-4	2.626-4	1.829-4	1.243-4	8.331-5	5.555-5	3.706-5	2.483-5
29	37	1.425-4	1.325-4	1.169-4	9.836-5	7.973-5	6.274-5	4.808-5	3.586-5	2.601-5	1.837-5	1.265-5
29	38	4.503-5	4.015-5	3.291-5	2.515-5	1.830-5	1.293-5	8.982-6	6.194-6	4.262-6	2.934-6	2.025-6
29	39	2.899-4	2.394-4	1.868-4	1.385-4	9.897-5	6.914-5	4.773-5	3.280-5	2.254-5	1.554-5	1.079-5
29	40	8.373-4	6.761-4	5.188-4	3.796-4	2.684-4	1.860-4	1.280-4	8.838-5	6.166-5	4.368-5	3.142-5
29	41	1.802-4	1.563-4	1.266-4	9.702-5	7.155-5	5.153-5	3.658-5	2.569-5	1.787-5	1.234-5	8.467-6
29	42	4.186-5	3.421-5	2.752-5	2.206-5	1.769-5	1.416-5	1.125-5	8.805-6	6.774-6	5.117-6	3.804-6
29	43	1.752-4	1.497-4	1.277-4	1.098-4	9.561-5	8.392-5	7.382-5	6.465-5	5.604-5	4.788-5	4.013-5
29	44	8.404-4	7.115-4	5.898-4	4.903-4	4.139-4	3.560-4	3.105-4	2.724-4	2.383-4	2.063-4	1.754-4
29	45	1.761-4	1.536-4	1.306-4	1.095-4	9.070-5	7.393-5	5.893-5	4.569-5	3.439-5	2.515-5	1.794-5
29	46	7.099-6	6.337-6	5.669-6	5.050-6	4.444-6	3.838-6	3.237-6	2.659-6	2.126-6	1.654-6	1.255-6
29	47	5.328-5	5.115-5	4.935-5	4.775-5	4.627-5	4.495-5	4.393-5	4.336-5	4.336-5	4.395-5	4.468-5
29	48	1.840-4	1.810-4	1.774-4	1.728-4	1.672-4	1.609-4	1.541-4	1.471-4	1.403-4	1.339-4	1.272-4
29	49	7.589-5	7.243-5	6.788-5	6.212-5	5.521-5	4.747-5	3.941-5	3.159-5	2.453-5	1.852-5	1.368-5
29	50	5.113-5	4.971-5	4.789-5	4.553-5	4.256-5	3.899-5	3.494-5	3.064-5	2.633-5	2.224-5	1.848-5
29	51	2.254-4	2.227-4	2.191-4	2.142-4	2.078-4	1.999-4	1.904-4	1.797-4	1.682-4	1.563-4	1.439-4
29	52	8.171-4	8.145-4	8.112-4	8.070-4	8.020-4	7.969-4	7.931-4	7.923-4	7.965-4	8.069-4	8.173-4
29	53	2.951-4	2.866-4	2.741-4	2.569-4	2.344-4	2.073-4	1.767-4	1.449-4	1.145-4	8.734-5	6.470-5
30	31	3.829-2	3.760-2	3.666-2	3.539-2	3.377-2	3.180-2	2.955-2	2.718-2	2.486-2	2.276-2	2.087-2
30	32	1.103-1	1.082-1	1.054-1	1.015-1	9.657-2	9.065-2	8.392-2	7.678-2	6.976-2	6.332-2	5.746-2
30	33	9.618-2	9.288-2	8.883-2	8.386-2	7.778-2	7.052-2	6.227-2	5.350-2	4.483-2	3.686-2	2.996-2
30	34	2.221-1	2.198-1	2.166-1	2.124-1	2.074-1	2.020-1	1.967-1	1.920-1	1.886-1	1.870-1	1.870-1
30	35	1.619-1	1.618-1	1.616-1	1.615-1	1.614-1	1.618-1	1.625-1	1.637-1	1.653-1	1.673-1	1.681-1
30	36	2.903-3	2.660-3	2.249-3	1.762-3	1.297-3	9.125-4	6.225-4	4.162-4	2.745-4	1.793-4	1.163-4
30	37	1.966-3	1.809-3	1.577-3	1.290-3	1.004-3	7.602-4	5.757-4	4.470-4	3.628-4	3.106-4	2.775-4
30	38	2.368-4	2.203-4	1.875-4	1.478-4	1.101-4	7.917-5	5.567-5	3.858-5	2.645-5	1.796-5	1.208-5
30	39	2.854-3	2.610-3	2.217-3	1.773-3	1.373-3	1.061-3	8.428-4	7.043-4	6.284-4	5.993-4	5.990-4
30	40	1.174-3	1.042-3	8.578-4	6.640-4	4.930-4	3.574-4	2.565-4	1.837-4	1.324-4	9.670-5	7.214-5
30	41	9.417-3	8.995-3	7.761-3	6.168-3	4.655-3	3.444-3	2.575-3	2.002-3	1.658-3	1.481-3	1.408-3
30	42	2.376-4	1.998-4	1.648-4	1.350-4	1.104-4	8.985-5	7.241-5	5.747-5	4.477-5	3.422-5	2.570-5
30	43	1.088-3	9.294-4	7.435-4	5.757-4	4.414-4	3.398-4	2.644-4	2.083-4	1.664-4	1.351-4	1.112-4
30	44	6.355-4	5.240-4	4.258-4	3.453-4	2.807-4	2.281-4	1.842-4	1.467-4	1.149-4	8.829-5	6.656-5
30	45	1.331-2	1.031-2	7.785-3	5.880-3	4.531-3	3.612-3	2.999-3	2.593-3	2.326-3	2.147-3	2.012-3
30	46	7.765-5	6.197-5	5.057-5	4.197-5	3.507-5	2.918-5	2.392-5	1.920-5	1.502-5	1.144-5	8.489-6

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
30	47	3.164-3	2.369-3	1.867-3	1.563-3	1.392-3	1.317-3	1.317-3	1.384-3	1.517-3	1.711-3	1.937-3
30	48	4.841-4	4.774-4	4.753-4	4.786-4	4.881-4	5.060-4	5.358-4	5.818-4	6.480-4	7.354-4	8.278-4
30	49	2.407-3	2.411-3	2.454-3	2.538-3	2.667-3	2.854-3	3.120-3	3.491-3	3.990-3	4.631-3	5.334-3
30	50	3.322-4	3.110-4	2.894-4	2.658-4	2.391-4	2.092-4	1.772-4	1.451-4	1.149-4	8.840-5	6.632-5
30	51	4.839-4	4.537-4	4.231-4	3.895-4	3.513-4	3.085-4	2.627-4	2.167-4	1.734-4	1.353-4	1.034-4
30	52	6.373-4	5.980-4	5.580-4	5.140-4	4.641-4	4.081-4	3.483-4	2.880-4	2.313-4	1.810-4	1.389-4
30	53	9.684-3	9.806-3	9.972-3	1.019-2	1.049-2	1.091-2	1.148-2	1.226-2	1.329-2	1.460-2	1.599-2
31	32	4.595-2	4.496-2	4.354-2	4.155-2	3.888-2	3.546-2	3.136-2	2.677-2	2.201-2	1.742-2	1.328-2
31	33	6.032-2	6.003-2	5.963-2	5.913-2	5.855-2	5.796-2	5.741-2	5.698-2	5.674-2	5.667-2	5.635-2
31	34	2.872-2	2.805-2	2.705-2	2.565-2	2.377-2	2.139-2	1.859-2	1.554-2	1.246-2	9.599-3	7.112-3
31	35	4.292-3	4.179-3	4.013-3	3.780-3	3.472-3	3.088-3	2.646-3	2.175-3	1.712-3	1.293-3	9.399-4
31	36	4.158-4	3.873-4	3.335-4	2.648-4	1.963-4	1.384-4	9.427-5	6.279-5	4.124-5	2.687-5	1.741-5
31	37	1.398-4	1.256-4	1.076-4	8.674-5	6.648-5	4.918-5	3.558-5	2.542-5	1.804-5	1.278-5	9.095-6
31	38	8.364-6	7.033-6	5.508-6	4.074-6	2.893-6	2.001-6	1.360-6	9.147-7	6.099-7	4.036-7	2.652-7
31	39	8.591-5	7.881-5	6.793-5	5.622-5	4.601-5	3.829-5	3.306-5	2.994-5	2.849-5	2.834-5	2.892-5
31	40	4.710-5	3.986-5	3.140-5	2.336-5	1.674-5	1.176-5	8.211-6	5.759-6	4.084-6	2.933-6	2.129-6
31	41	4.755-5	4.461-5	3.744-5	2.884-5	2.097-5	1.472-5	1.012-5	6.885-6	4.668-6	3.169-6	2.162-6
31	42	1.584-5	1.317-5	1.085-5	8.937-6	7.381-6	6.090-6	4.989-6	4.030-6	3.191-6	2.469-6	1.863-6
31	43	8.757-5	7.615-5	6.623-5	5.835-5	5.228-5	4.750-5	4.350-5	3.985-5	3.627-5	3.262-5	2.883-5
31	44	1.831-5	1.511-5	1.221-5	9.803-6	7.881-6	6.341-6	5.083-6	4.031-6	3.144-6	2.402-6	1.795-6
31	45	3.439-5	2.883-5	2.350-5	1.891-5	1.512-5	1.200-5	9.404-6	7.246-6	5.477-6	4.070-6	2.985-6
31	46	6.645-6	6.349-6	6.007-6	5.595-6	5.100-6	4.525-6	3.890-6	3.229-6	2.584-6	1.992-6	1.482-6
31	47	5.517-4	5.463-4	5.475-4	5.573-4	5.773-4	6.104-4	6.605-4	7.324-4	8.309-4	9.579-4	1.097-3
31	48	1.272-5	1.235-5	1.188-5	1.130-5	1.057-5	9.714-6	8.737-6	7.683-6	6.599-6	5.532-6	4.501-6
31	49	2.958-5	2.929-5	2.915-5	2.918-5	2.942-5	2.999-5	3.114-5	3.312-5	3.623-5	4.064-5	4.576-5
31	50	2.230-5	2.190-5	2.141-5	2.080-5	2.004-5	1.910-5	1.800-5	1.673-5	1.532-5	1.381-5	1.220-5
31	51	1.155-4	1.144-4	1.129-4	1.107-4	1.075-4	1.032-4	9.756-5	9.068-5	8.274-5	7.408-5	6.496-5
31	52	1.423-5	1.367-5	1.302-5	1.224-5	1.126-5	1.010-5	8.774-6	7.379-6	6.009-6	4.751-6	3.655-6
31	53	5.521-5	5.378-5	5.168-5	4.873-5	4.483-5	4.001-5	3.448-5	2.863-5	2.291-5	1.774-5	1.336-5
32	33	1.984-1	1.962-1	1.930-1	1.887-1	1.834-1	1.772-1	1.705-1	1.635-1	1.568-1	1.507-1	1.446-1
32	34	8.725-2	8.519-2	8.218-2	7.792-2	7.221-2	6.500-2	5.649-2	4.722-2	3.788-2	2.918-2	2.163-2
32	35	1.314-2	1.279-2	1.228-2	1.156-2	1.062-2	9.448-3	8.094-3	6.653-3	5.238-3	3.956-3	2.876-3
32	36	1.450-3	1.359-3	1.183-3	9.497-4	7.105-4	5.040-4	3.445-4	2.298-4	1.510-4	9.830-5	6.364-5
32	37	1.523-4	1.394-4	1.218-4	1.013-4	8.103-5	6.292-5	4.771-5	3.538-5	2.563-5	1.813-5	1.253-5
32	38	1.579-4	1.357-4	1.095-4	8.445-5	6.384-5	4.854-5	3.797-5	3.111-5	2.697-5	2.479-5	2.381-5
32	39	1.576-4	1.396-4	1.142-4	8.780-5	6.504-5	4.755-5	3.504-5	2.652-5	2.092-5	1.741-5	1.526-5
32	40	3.466-4	3.112-4	2.558-4	1.967-4	1.454-4	1.059-4	7.784-5	5.884-5	4.648-5	3.879-5	3.412-5
32	41	1.488-4	1.447-4	1.248-4	9.835-5	7.324-5	5.296-5	3.803-5	2.764-5	2.072-5	1.628-5	1.352-5
32	42	1.419-4	1.217-4	1.038-4	8.946-5	7.852-5	7.011-5	6.336-5	5.751-5	5.207-5	4.673-5	4.130-5
32	43	1.609-4	1.257-4	9.606-5	7.324-5	5.643-5	4.416-5	3.505-5	2.810-5	2.261-5	1.818-5	1.454-5
32	44	1.860-4	1.578-4	1.323-4	1.117-4	9.577-5	8.348-5	7.360-5	6.514-5	5.742-5	5.010-5	4.297-5
32	45	2.193-4	1.696-4	1.272-4	9.414-5	6.946-5	5.116-5	3.749-5	2.717-5	1.939-5	1.358-5	9.343-6
32	46	6.069-4	5.993-4	5.996-4	6.101-4	6.321-4	6.681-4	7.224-4	8.002-4	9.068-4	1.045-3	1.198-3

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
32	47	4.712-4	4.517-4	4.418-4	4.413-4	4.499-4	4.687-4	5.003-4	5.480-4	6.153-4	7.040-4	8.032-4
32	48	6.731-4	6.688-4	6.727-4	6.865-4	7.122-4	7.533-4	8.152-4	9.041-4	1.025-3	1.179-3	1.339-3
32	49	6.891-5	6.765-5	6.632-5	6.485-5	6.325-5	6.172-5	6.068-5	6.067-5	6.225-5	6.585-5	7.075-5
32	50	1.886-4	1.866-4	1.839-4	1.801-4	1.747-4	1.675-4	1.584-4	1.472-4	1.344-4	1.205-4	1.059-4
32	51	7.593-5	7.433-5	7.241-5	7.000-5	6.694-5	6.318-5	5.872-5	5.369-5	4.828-5	4.269-5	3.704-5
32	52	1.912-4	1.887-4	1.853-4	1.807-4	1.744-4	1.661-4	1.556-4	1.432-4	1.293-4	1.145-4	9.918-5
32	53	1.625-4	1.582-4	1.518-4	1.429-4	1.312-4	1.167-4	9.999-5	8.236-5	6.513-5	4.953-5	3.635-5
33	34	1.760-1	1.728-1	1.683-1	1.620-1	1.536-1	1.432-1	1.311-1	1.183-1	1.058-1	9.475-2	8.614-2
33	35	6.406-2	6.361-2	6.294-2	6.201-2	6.082-2	5.942-2	5.791-2	5.644-2	5.514-2	5.412-2	5.302-2
33	36	2.111-3	1.958-3	1.691-3	1.352-3	1.010-3	7.175-4	4.918-4	3.294-4	2.174-4	1.422-4	9.240-5
33	37	1.493-3	1.388-3	1.175-3	9.249-4	6.923-4	5.032-4	3.620-4	2.625-4	1.951-4	1.504-4	1.209-4
33	38	1.247-4	1.083-4	8.823-5	6.756-5	4.938-5	3.501-5	2.438-5	1.682-5	1.154-5	7.901-6	5.394-6
33	39	9.444-4	8.627-4	7.244-4	5.652-4	4.194-4	3.036-4	2.197-4	1.629-4	1.268-4	1.056-4	9.418-5
33	40	8.973-4	8.509-4	7.246-4	5.691-4	4.250-4	3.100-4	2.256-4	1.670-4	1.277-4	1.024-4	8.635-5
33	41	2.941-3	2.844-3	2.482-3	1.994-3	1.522-3	1.140-3	8.650-4	6.838-4	5.759-4	5.219-4	5.017-4
33	42	1.104-4	9.281-5	7.681-5	6.346-5	5.268-5	4.392-5	3.663-5	3.039-5	2.499-5	2.031-5	1.629-5
33	43	4.341-4	3.669-4	2.952-4	2.328-4	1.835-4	1.462-4	1.180-4	9.621-5	7.894-5	6.486-5	5.309-5
33	44	4.514-4	3.782-4	3.138-4	2.616-4	2.207-4	1.881-4	1.612-4	1.381-4	1.176-4	9.924-5	8.262-5
33	45	5.692-3	4.323-3	3.189-3	2.342-3	1.746-3	1.340-3	1.069-3	8.899-4	7.711-4	6.917-4	6.340-4
33	46	4.863-5	3.383-5	2.367-5	1.685-5	1.230-5	9.238-6	7.137-6	5.640-6	4.524-6	3.651-6	2.938-6
33	47	1.352-3	9.347-4	6.682-4	5.010-4	3.989-4	3.402-4	3.119-4	3.065-4	3.199-4	3.492-4	3.872-4
33	48	1.727-3	1.714-3	1.723-3	1.757-3	1.820-3	1.920-3	2.071-3	2.288-3	2.587-3	2.971-3	3.375-3
33	49	1.281-3	1.282-3	1.300-3	1.338-3	1.397-3	1.484-3	1.610-3	1.788-3	2.031-3	2.347-3	2.697-3
33	50	1.746-4	1.671-4	1.590-4	1.497-4	1.387-4	1.259-4	1.117-4	9.682-5	8.209-5	6.832-5	5.593-5
33	51	3.273-4	3.163-4	3.043-4	2.903-4	2.735-4	2.534-4	2.304-4	2.054-4	1.797-4	1.545-4	1.305-4
33	52	4.435-4	4.294-4	4.142-4	3.963-4	3.747-4	3.489-4	3.192-4	2.866-4	2.528-4	2.189-4	1.858-4
33	53	2.887-3	2.916-3	2.954-3	3.005-3	3.074-3	3.171-3	3.310-3	3.505-3	3.769-3	4.113-3	4.483-3
34	35	7.829-3	7.737-3	7.612-3	7.465-3	7.332-3	7.281-3	7.404-3	7.800-3	8.524-3	9.552-3	1.067-2
34	36	1.410-3	1.190-3	9.488-4	7.133-4	5.099-4	3.506-4	2.346-4	1.540-4	9.988-5	6.423-5	4.107-5
34	37	1.203-3	1.026-3	8.272-4	6.307-4	4.586-4	3.222-4	2.215-4	1.509-4	1.035-4	7.284-5	5.352-5
34	38	1.415-4	1.226-4	9.869-5	7.476-5	5.421-5	3.816-5	2.631-5	1.786-5	1.196-5	7.917-6	5.186-6
34	39	8.053-4	7.104-4	5.793-4	4.417-4	3.206-4	2.254-4	1.556-4	1.067-4	7.324-5	5.081-5	3.585-5
34	40	7.564-4	6.494-4	5.187-4	3.906-4	2.819-4	1.977-4	1.359-4	9.197-5	6.148-5	4.063-5	2.659-5
34	41	1.880-3	1.711-3	1.415-3	1.084-3	7.856-4	5.500-4	3.782-4	2.590-4	1.789-4	1.260-4	9.116-5
34	42	2.761-4	2.237-4	1.758-4	1.360-4	1.039-4	7.834-5	5.796-5	4.191-5	2.959-5	2.042-5	1.380-5
34	43	9.202-4	7.228-4	5.433-4	3.986-4	2.888-4	2.073-4	1.475-4	1.039-4	7.239-5	5.004-5	3.443-5
34	44	4.772-4	3.962-4	3.218-4	2.577-4	2.035-4	1.577-4	1.193-4	8.772-5	6.269-5	4.363-5	2.968-5
34	45	3.408-3	2.676-3	2.022-3	1.504-3	1.125-3	8.600-4	6.805-4	5.623-4	4.864-4	4.381-4	4.039-4
34	46	2.360-5	2.140-5	1.942-5	1.748-5	1.550-5	1.343-5	1.131-5	9.217-6	7.250-6	5.499-6	4.025-6
34	47	3.158-4	2.417-4	1.924-4	1.589-4	1.353-4	1.180-4	1.051-4	9.545-5	8.850-5	8.387-5	8.065-5
34	48	1.018-4	9.713-5	9.147-5	8.452-5	7.621-5	6.676-5	5.661-5	4.635-5	3.658-5	2.781-5	2.040-5
34	49	6.220-4	6.182-4	6.136-4	6.084-4	6.033-4	5.998-4	5.999-4	6.057-4	6.184-4	6.376-4	6.565-4
34	50	2.126-4	1.939-4	1.746-4	1.539-4	1.316-4	1.086-4	8.637-5	6.618-5	4.902-5	3.522-5	2.464-5

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
34	51	2.993-4	2.729-4	2.459-4	2.169-4	1.858-4	1.538-4	1.227-4	9.455-5	7.062-5	5.140-5	3.667-5
34	52	3.839-4	3.497-4	3.150-4	2.778-4	2.379-4	1.968-4	1.569-4	1.207-4	8.975-5	6.483-5	4.564-5
34	53	6.450-3	6.458-3	6.462-3	6.460-3	6.452-3	6.439-3	6.429-3	6.432-3	6.464-3	6.539-3	6.612-3
35	36	4.115-3	3.609-3	2.957-3	2.267-3	1.644-3	1.143-3	7.714-4	5.105-4	3.335-4	2.161-4	1.392-4
35	37	2.305-2	2.235-2	1.996-2	1.666-2	1.328-2	1.037-2	8.105-3	6.449-3	5.275-3	4.453-3	3.860-3
35	38	5.284-5	4.428-5	3.549-5	2.733-5	2.046-5	1.503-5	1.090-5	7.808-6	5.521-6	3.848-6	2.641-6
35	39	6.311-3	6.931-3	6.542-3	5.627-3	4.656-3	3.876-3	3.357-3	3.086-3	3.021-3	3.123-3	3.321-3
35	40	2.907-4	2.529-4	2.058-4	1.589-4	1.183-4	8.615-5	6.178-5	4.377-5	3.064-5	2.117-5	1.443-5
35	41	2.036-2	2.226-2	2.071-2	1.752-2	1.422-2	1.160-2	9.838-3	8.870-3	8.552-3	8.748-3	9.239-3
35	42	5.799-5	4.753-5	3.831-5	3.072-5	2.459-5	1.958-5	1.540-5	1.188-5	8.934-6	6.540-6	4.660-6
35	43	1.571-4	1.296-4	1.054-4	8.603-5	7.131-5	6.029-5	5.203-5	4.584-5	4.123-5	3.781-5	3.505-5
35	44	1.188-4	9.969-5	8.221-5	6.733-5	5.490-5	4.437-5	3.531-5	2.746-5	2.079-5	1.529-5	1.093-5
35	45	1.858-3	1.702-3	1.551-3	1.438-3	1.372-3	1.349-3	1.363-3	1.402-3	1.456-3	1.514-3	1.553-3
35	46	3.194-5	2.826-5	2.515-5	2.244-5	1.991-5	1.741-5	1.488-5	1.235-5	9.918-6	7.693-6	5.767-6
35	47	1.411-3	1.374-3	1.355-3	1.355-3	1.379-3	1.429-3	1.512-3	1.633-3	1.798-3	2.010-3	2.240-3
35	48	1.432-4	1.314-4	1.211-4	1.112-4	1.007-4	8.940-5	7.716-5	6.445-5	5.196-5	4.040-5	3.029-5
35	49	1.225-2	1.218-2	1.225-2	1.247-2	1.286-2	1.348-2	1.438-2	1.566-2	1.740-2	1.962-2	2.202-2
35	50	5.062-5	4.768-5	4.450-5	4.086-5	3.662-5	3.182-5	2.669-5	2.155-5	1.675-5	1.255-5	9.098-6
35	51	7.071-5	6.659-5	6.215-5	5.707-5	5.115-5	4.446-5	3.730-5	3.012-5	2.342-5	1.756-5	1.275-5
35	52	9.041-5	8.515-5	7.950-5	7.301-5	6.546-5	5.691-5	4.775-5	3.855-5	2.996-5	2.245-5	1.627-5
35	53	1.603-3	1.607-3	1.612-3	1.616-3	1.621-3	1.626-3	1.629-3	1.631-3	1.632-3	1.628-3	1.604-3
36	37	1.261-0	1.021-0	7.804-1	5.671-1	3.957-1	2.679-1	1.777-1	1.163-1	7.537-2	4.858-2	3.118-2
36	38	2.916-0	2.974-0	2.855-0	2.680-0	2.549-0	2.503-0	2.545-0	2.668-0	2.873-0	3.140-0	3.390-0
36	39	4.787-0	4.758-0	4.686-0	4.672-0	4.772-0	5.001-0	5.344-0	5.796-0	6.379-0	7.064-0	7.681-0
36	40	1.162+1	1.144+1	1.107+1	1.081+1	1.082+1	1.116+1	1.178+1	1.266+1	1.384+1	1.526+1	1.657+1
36	41	1.598-0	1.594-0	1.561-0	1.533-0	1.535-0	1.579-0	1.662-0	1.784-0	1.948-0	2.149-0	2.339-0
36	42	5.916-1	5.488-1	5.149-1	4.922-1	4.798-1	4.751-1	4.757-1	4.792-1	4.833-1	4.864-1	4.838-1
36	43	1.416-0	1.228-0	1.072-0	9.603-1	8.873-1	8.444-1	8.223-1	8.131-1	8.106-1	8.099-1	8.025-1
36	44	1.107-0	1.083-0	1.066-0	1.059-0	1.061-0	1.071-0	1.087-0	1.105-0	1.121-0	1.133-0	1.130-0
36	45	6.345-2	5.674-2	5.042-2	4.478-2	3.977-2	3.524-2	3.110-2	2.737-2	2.411-2	2.137-2	1.904-2
36	46	6.028-1	6.053-1	6.114-1	6.219-1	6.384-1	6.633-1	6.989-1	7.463-1	8.070-1	8.831-1	9.662-1
36	47	1.922-0	1.832-0	1.785-0	1.773-0	1.791-0	1.841-0	1.927-0	2.048-0	2.209-0	2.413-0	2.636-0
36	48	2.912-0	2.940-0	2.977-0	3.029-0	3.108-0	3.226-0	3.393-0	3.619-0	3.908-0	4.260-0	4.600-0
36	49	1.623-1	1.630-1	1.641-1	1.660-1	1.692-1	1.741-1	1.814-1	1.915-1	2.048-1	2.217-1	2.400-1
36	50	9.605-2	9.577-2	9.524-2	9.452-2	9.371-2	9.297-2	9.248-2	9.237-2	9.283-2	9.407-2	9.549-2
36	51	1.342-1	1.338-1	1.331-1	1.322-1	1.311-1	1.301-1	1.294-1	1.294-1	1.299-1	1.311-1	1.317-1
36	52	1.722-1	1.717-1	1.709-1	1.697-1	1.684-1	1.672-1	1.664-1	1.663-1	1.670-1	1.684-1	1.686-1
36	53	3.226-2	3.111-2	2.948-2	2.729-2	2.453-2	2.129-2	1.778-2	1.425-2	1.098-2	8.143-3	5.845-3
37	38	1.108-2	9.167-3	7.312-3	5.665-3	4.310-3	3.245-3	2.424-3	1.792-3	1.306-3	9.349-4	6.570-4
37	39	1.429-0	1.422-0	1.393-0	1.374-0	1.383-0	1.422-0	1.485-0	1.557-0	1.620-0	1.657-0	1.653-0
37	40	5.661-2	5.036-2	4.165-2	3.268-2	2.483-2	1.853-2	1.366-2	9.964-3	7.170-3	5.080-3	3.539-3
37	41	4.542-0	4.579-0	4.471-0	4.351-0	4.307-0	4.369-0	4.521-0	4.718-0	4.904-0	5.024-0	5.016-0
37	42	1.154-2	9.871-3	8.375-3	7.071-3	5.919-3	4.876-3	3.925-3	3.070-3	2.327-3	1.709-3	1.219-3

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
37	43	3.683-2	3.248-2	2.877-2	2.576-2	2.336-2	2.141-2	1.979-2	1.843-2	1.729-2	1.633-2	1.543-2
37	44	2.237-2	1.982-2	1.738-2	1.509-2	1.293-2	1.084-2	8.843-3	6.981-3	5.326-3	3.929-3	2.812-3
37	45	7.218-1	7.178-1	7.164-1	7.191-1	7.264-1	7.376-1	7.514-1	7.658-1	7.785-1	7.877-1	7.868-1
37	46	3.496-3	2.952-3	2.523-3	2.185-3	1.905-3	1.654-3	1.414-3	1.180-3	9.544-4	7.465-4	5.644-4
37	47	2.281-1	2.298-1	2.326-1	2.369-1	2.434-1	2.531-1	2.670-1	2.857-1	3.097-1	3.405-1	3.754-1
37	48	1.427-2	1.240-2	1.099-2	9.865-3	8.854-3	7.856-3	6.820-3	5.749-3	4.684-3	3.680-3	2.789-3
37	49	1.994-0	2.016-0	2.044-0	2.084-0	2.143-0	2.232-0	2.358-0	2.526-0	2.742-0	3.010-0	3.297-0
37	50	8.044-3	7.701-3	7.257-3	6.688-3	5.990-3	5.182-3	4.314-3	3.449-3	2.650-3	1.962-3	1.405-3
37	51	1.124-2	1.076-2	1.014-2	9.349-3	8.375-3	7.248-3	6.035-3	4.827-3	3.711-3	2.750-3	1.972-3
37	52	1.439-2	1.377-2	1.298-2	1.197-2	1.072-2	9.280-3	7.728-3	6.181-3	4.750-3	3.518-3	2.521-3
37	53	1.082-1	1.084-1	1.086-1	1.090-1	1.098-1	1.109-1	1.126-1	1.149-1	1.176-1	1.205-1	1.223-1
38	39	7.885-1	6.082-1	4.486-1	3.202-1	2.239-1	1.550-1	1.068-1	7.346-2	5.040-2	3.443-2	2.337-2
38	40	2.915-0	2.683-0	2.269-0	1.805-0	1.393-0	1.072-0	8.398-1	6.794-1	5.710-1	4.979-1	4.456-1
38	41	3.890-1	3.262-1	2.535-1	1.857-1	1.308-1	8.983-2	6.075-2	4.069-2	2.707-2	1.789-2	1.176-2
38	42	2.251-0	2.405-0	2.579-0	2.766-0	2.978-0	3.224-0	3.509-0	3.839-0	4.243-0	4.739-0	5.258-0
38	43	3.713-2	3.093-2	2.511-2	2.015-2	1.607-2	1.270-2	9.900-3	7.566-3	5.649-3	4.115-3	2.928-3
38	44	7.974-2	7.600-2	7.295-2	7.083-2	6.963-2	6.925-2	6.959-2	7.053-2	7.197-2	7.366-2	7.481-2
38	45	1.910-2	1.658-2	1.416-2	1.200-2	1.008-2	8.341-3	6.754-3	5.318-3	4.060-3	3.004-3	2.159-3
38	46	1.341-3	1.389-3	1.401-3	1.367-3	1.290-3	1.182-3	1.054-3	9.173-4	7.784-4	6.446-4	5.208-4
38	47	4.934-3	4.781-3	4.651-3	4.506-3	4.326-3	4.101-3	3.828-3	3.502-3	3.130-3	2.726-3	2.309-3
38	48	2.390-3	2.356-3	2.315-3	2.261-3	2.185-3	2.083-3	1.950-3	1.788-3	1.604-3	1.409-3	1.211-3
38	49	7.516-4	7.283-4	7.001-4	6.649-4	6.215-4	5.700-4	5.116-4	4.484-4	3.834-4	3.198-4	2.603-4
38	50	2.926-1	2.953-1	2.986-1	3.028-1	3.081-1	3.145-1	3.214-1	3.283-1	3.342-1	3.383-1	3.380-1
38	51	1.462-2	1.407-2	1.330-2	1.227-2	1.098-2	9.495-3	7.895-3	6.307-3	4.845-3	3.590-3	2.576-3
38	52	2.577-2	2.565-2	2.547-2	2.526-2	2.504-2	2.485-2	2.475-2	2.476-2	2.489-2	2.509-2	2.510-2
38	53	1.275-2	1.227-2	1.159-2	1.069-2	9.560-3	8.251-3	6.844-3	5.450-3	4.170-3	3.075-3	2.195-3
39	40	5.652-0	5.791-0	5.138-0	4.153-0	3.191-0	2.408-0	1.830-0	1.425-0	1.150-0	9.641-1	8.348-1
39	41	1.057+1	1.088+1	9.571-0	7.570-0	5.606-0	4.007-0	2.829-0	2.011-0	1.460-0	1.097-0	8.560-1
39	42	1.308-0	1.383-0	1.468-0	1.562-0	1.671-0	1.801-0	1.954-0	2.134-0	2.357-0	2.633-0	2.927-0
39	43	4.610-0	4.910-0	5.251-0	5.623-0	6.045-0	6.537-0	7.106-0	7.767-0	8.573-0	9.557-0	1.057+1
39	44	1.898-1	1.733-1	1.583-1	1.462-1	1.369-1	1.301-1	1.253-1	1.222-1	1.206-1	1.202-1	1.198-1
39	45	1.225-0	1.273-0	1.328-0	1.393-0	1.474-0	1.574-0	1.696-0	1.841-0	2.022-0	2.253-0	2.506-0
39	46	3.829-3	3.827-3	3.798-3	3.726-3	3.605-3	3.434-3	3.213-3	2.943-3	2.631-3	2.291-3	1.940-3
39	47	9.134-3	8.236-3	7.602-3	7.090-3	6.618-3	6.140-3	5.635-3	5.097-3	4.535-3	3.970-3	3.421-3
39	48	8.925-3	8.892-3	8.793-3	8.607-3	8.318-3	7.915-3	7.391-3	6.752-3	6.023-3	5.247-3	4.479-3
39	49	1.139-2	1.142-2	1.131-2	1.106-2	1.067-2	1.015-2	9.523-3	8.798-3	8.004-3	7.183-3	6.362-3
39	50	2.402-1	2.415-1	2.430-1	2.450-1	2.475-1	2.504-1	2.536-1	2.567-1	2.592-1	2.607-1	2.590-1
39	51	4.809-1	4.842-1	4.882-1	4.934-1	5.001-1	5.084-1	5.177-1	5.270-1	5.350-1	5.407-1	5.395-1
39	52	6.940-2	6.774-2	6.561-2	6.292-2	5.971-2	5.613-2	5.244-2	4.895-2	4.592-2	4.343-2	4.109-2
39	53	2.399-1	2.406-1	2.414-1	2.427-1	2.444-1	2.467-1	2.494-1	2.522-1	2.547-1	2.561-1	2.541-1
40	41	1.995-0	2.040-0	1.809-0	1.462-0	1.124-0	8.474-1	6.423-1	4.975-1	3.981-1	3.304-1	2.830-1
40	42	2.824-1	2.780-1	2.763-1	2.778-1	2.831-1	2.925-1	3.059-1	3.233-1	3.459-1	3.737-1	4.014-1
40	43	1.929-0	2.028-0	2.143-0	2.273-0	2.425-0	2.608-0	2.822-0	3.075-0	3.385-0	3.765-0	4.155-0

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
40	44	1.177+1	1.209+1	1.252+1	1.307+1	1.382+1	1.478+1	1.595+1	1.735+1	1.910+1	2.124+1	2.340+1
40	45	1.117-1	1.021-1	9.309-2	8.531-2	7.877-2	7.338-2	6.906-2	6.597-2	6.439-2	6.412-2	6.396-2
40	46	2.496-3	2.437-3	2.377-3	2.307-3	2.220-3	2.107-3	1.965-3	1.796-3	1.606-3	1.406-3	1.207-3
40	47	1.168-2	1.127-2	1.092-2	1.055-2	1.011-2	9.568-3	8.910-3	8.132-3	7.255-3	6.323-3	5.377-3
40	48	2.774-2	2.803-2	2.795-2	2.744-2	2.650-2	2.512-2	2.333-2	2.119-2	1.877-2	1.622-2	1.363-2
40	49	2.897-3	2.783-3	2.652-3	2.496-3	2.310-3	2.092-3	1.850-3	1.594-3	1.339-3	1.098-3	8.803-4
40	50	1.082-1	1.079-1	1.075-1	1.070-1	1.063-1	1.057-1	1.052-1	1.050-1	1.049-1	1.049-1	1.041-1
40	51	3.716-1	3.729-1	3.744-1	3.761-1	3.783-1	3.811-1	3.844-1	3.878-1	3.907-1	3.926-1	3.902-1
40	52	1.201-0	1.209-0	1.219-0	1.231-0	1.247-0	1.266-0	1.288-0	1.309-0	1.327-0	1.339-0	1.339-0
40	53	6.370-2	6.129-2	5.789-2	5.336-2	4.772-2	4.117-2	3.414-2	2.717-2	2.079-2	1.533-2	1.094-2
41	42	4.845-1	5.090-1	5.374-1	5.693-1	6.068-1	6.520-1	7.051-1	7.680-1	8.456-1	9.399-1	1.034-0
41	43	8.135-1	8.400-1	8.750-1	9.187-1	9.736-1	1.042-0	1.123-0	1.219-0	1.340-0	1.492-0	1.655-0
41	44	1.025-1	9.189-2	8.205-2	7.361-2	6.650-2	6.050-2	5.543-2	5.121-2	4.786-2	4.535-2	4.328-2
41	45	6.128-0	6.493-0	6.902-0	7.354-0	7.877-0	8.498-0	9.222-0	1.007+1	1.111+1	1.236+1	1.364+1
41	46	1.756-3	1.670-3	1.597-3	1.522-3	1.440-3	1.345-3	1.235-3	1.111-3	9.762-4	8.356-4	6.963-4
41	47	2.000-2	1.572-2	1.290-2	1.095-2	9.526-3	8.394-3	7.431-3	6.563-3	5.756-3	5.002-3	4.302-3
41	48	4.231-3	4.153-3	4.050-3	3.910-3	3.724-3	3.489-3	3.204-3	2.877-3	2.522-3	2.161-3	1.811-3
41	49	2.366-2	2.368-2	2.352-2	2.317-2	2.259-2	2.180-2	2.078-2	1.954-2	1.812-2	1.662-2	1.510-2
41	50	1.013-1	1.005-1	9.949-2	9.832-2	9.698-2	9.550-2	9.395-2	9.238-2	9.084-2	8.931-2	8.720-2
41	51	1.780-1	1.774-1	1.769-1	1.763-1	1.758-1	1.753-1	1.751-1	1.748-1	1.744-1	1.736-1	1.712-1
41	52	5.053-2	4.842-2	4.595-2	4.297-2	3.944-2	3.546-2	3.127-2	2.718-2	2.349-2	2.038-2	1.784-2
41	53	6.875-1	6.924-1	6.993-1	7.087-1	7.211-1	7.362-1	7.532-1	7.703-1	7.855-1	7.966-1	7.970-1
42	43	1.094-0	9.893-1	8.768-1	7.777-1	6.978-1	6.356-1	5.873-1	5.493-1	5.189-1	4.938-1	4.700-1
42	44	2.114-1	1.930-1	1.764-1	1.627-1	1.516-1	1.427-1	1.357-1	1.303-1	1.261-1	1.229-1	1.196-1
42	45	1.210-1	1.037-1	8.731-2	7.292-2	6.061-2	5.002-2	4.087-2	3.304-2	2.651-2	2.125-2	1.710-2
42	46	6.865-2	7.910-2	8.960-2	9.943-2	1.081-1	1.152-1	1.202-1	1.227-1	1.227-1	1.203-1	1.156-1
42	47	5.473-2	5.929-2	6.465-2	7.014-2	7.535-2	7.986-2	8.320-2	8.502-2	8.517-2	8.368-2	8.036-2
42	48	4.759-3	4.989-3	5.222-3	5.450-3	5.669-3	5.867-3	6.018-3	6.090-3	6.052-3	5.900-3	5.622-3
42	49	2.926-3	2.991-3	3.054-3	3.118-3	3.187-3	3.261-3	3.331-3	3.381-3	3.392-3	3.354-3	3.250-3
42	50	6.954-0	7.307-0	7.661-0	8.053-0	8.509-0	9.030-0	9.576-0	1.007+1	1.044+1	1.060+1	1.049+1
42	51	9.352-2	9.198-2	8.984-2	8.708-2	8.381-2	8.032-2	7.696-2	7.409-2	7.195-2	7.059-2	6.939-2
42	52	5.048-2	4.918-2	4.743-2	4.522-2	4.265-2	3.992-2	3.733-2	3.515-2	3.357-2	3.261-2	3.195-2
42	53	4.641-2	4.445-2	4.172-2	3.814-2	3.377-2	2.882-2	2.364-2	1.863-2	1.412-2	1.033-2	7.331-3
43	44	1.095-0	1.003-0	9.191-1	8.479-1	7.897-1	7.421-1	7.024-1	6.690-1	6.407-1	6.164-1	5.918-1
43	45	6.259-1	5.179-1	4.008-1	2.988-1	2.188-1	1.592-1	1.157-1	8.426-2	6.159-2	4.538-2	3.385-2
43	46	1.548-3	1.303-3	1.129-3	1.006-3	9.123-4	8.347-4	7.622-4	6.881-4	6.099-4	5.282-4	4.454-4
43	47	1.415-1	1.472-1	1.564-1	1.671-1	1.779-1	1.876-1	1.951-1	1.992-1	1.996-1	1.962-1	1.886-1
43	48	4.267-2	4.680-2	5.078-2	5.461-2	5.834-2	6.189-2	6.499-2	6.722-2	6.820-2	6.783-2	6.600-2
43	49	1.942-2	2.060-2	2.170-2	2.279-2	2.397-2	2.526-2	2.656-2	2.771-2	2.849-2	2.876-2	2.834-2
43	50	1.363-0	1.423-0	1.482-0	1.547-0	1.625-0	1.716-0	1.813-0	1.904-0	1.970-0	1.998-0	1.969-0
43	51	1.022+1	1.073+1	1.125+1	1.183+1	1.250+1	1.326+1	1.406+1	1.478+1	1.532+1	1.556+1	1.537+1
43	52	1.465-1	1.434-1	1.392-1	1.340-1	1.278-1	1.212-1	1.149-1	1.095-1	1.054-1	1.028-1	1.010-1
43	53	2.497-1	2.495-1	2.495-1	2.501-1	2.518-1	2.548-1	2.589-1	2.631-1	2.663-1	2.666-1	2.614-1

Table 4. Effective collision strengths for transitions in Fe XV.

Transition		Temperature (log T_e, K)										
I	J	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00
44	45	2.131-1	1.866-1	1.613-1	1.383-1	1.175-1	9.847-2	8.104-2	6.539-2	5.183-2	4.056-2	3.154-2
44	46	1.570-3	1.312-3	1.127-3	9.948-4	8.969-4	8.200-4	7.550-4	6.964-4	6.415-4	5.894-4	5.377-4
44	47	5.103-3	4.359-3	3.823-3	3.428-3	3.117-3	2.851-3	2.605-3	2.363-3	2.124-3	1.892-3	1.674-3
44	48	1.943-1	2.148-1	2.341-1	2.522-1	2.699-1	2.869-1	3.023-1	3.139-1	3.201-1	3.199-1	3.126-1
44	49	1.988-3	1.797-3	1.626-3	1.459-3	1.288-3	1.111-3	9.327-4	7.608-4	6.038-4	4.676-4	3.544-4
44	50	1.112-1	1.109-1	1.100-1	1.086-1	1.071-1	1.059-1	1.051-1	1.047-1	1.043-1	1.034-1	1.010-1
44	51	1.446-0	1.505-0	1.562-0	1.626-0	1.702-0	1.791-0	1.888-0	1.980-0	2.052-0	2.084-0	2.050-0
44	52	1.527+1	1.601+1	1.676+1	1.760+1	1.858+1	1.969+1	2.085+1	2.192+1	2.272+1	2.307+1	2.272+1
44	53	1.094-1	1.048-1	9.832-2	8.989-2	7.959-2	6.791-2	5.569-2	4.387-2	3.325-2	2.433-2	1.725-2
45	46	8.390-4	5.887-4	4.157-4	2.973-4	2.157-4	1.582-4	1.167-4	8.593-5	6.290-5	4.560-5	3.269-5
45	47	4.857-2	3.458-2	2.579-2	2.036-2	1.707-2	1.508-2	1.387-2	1.306-2	1.243-2	1.188-2	1.130-2
45	48	9.114-4	7.911-4	6.972-4	6.226-4	5.606-4	5.063-4	4.569-4	4.114-4	3.690-4	3.297-4	2.924-4
45	49	3.856-2	3.637-2	3.512-2	3.454-2	3.446-2	3.472-2	3.517-2	3.560-2	3.581-2	3.570-2	3.509-2
45	50	9.085-2	8.599-2	8.135-2	7.663-2	7.173-2	6.671-2	6.172-2	5.694-2	5.243-2	4.818-2	4.397-2
45	51	2.412-1	2.406-1	2.405-1	2.410-1	2.423-1	2.446-1	2.472-1	2.491-1	2.490-1	2.457-1	2.371-1
45	52	1.132-1	1.029-1	9.318-2	8.323-2	7.268-2	6.160-2	5.046-2	3.990-2	3.053-2	2.271-2	1.653-2
45	53	1.160+1	1.181+1	1.210+1	1.254+1	1.313+1	1.388+1	1.471+1	1.552+1	1.619+1	1.660+1	1.658+1
46	47	3.790-2	3.611-2	3.415-2	3.185-2	2.913-2	2.597-2	2.247-2	1.882-2	1.524-2	1.194-2	9.055-3
46	48	8.746-2	8.776-2	8.766-2	8.711-2	8.616-2	8.492-2	8.350-2	8.203-2	8.065-2	7.958-2	7.886-2
46	49	8.227-3	8.081-3	7.857-3	7.533-3	7.086-3	6.503-3	5.793-3	4.986-3	4.136-3	3.302-3	2.538-3
46	50	2.281-4	2.249-4	2.172-4	2.052-4	1.895-4	1.711-4	1.515-4	1.317-4	1.127-4	9.538-5	7.990-5
46	51	3.286-4	3.228-4	3.137-4	3.006-4	2.836-4	2.626-4	2.383-4	2.114-4	1.831-4	1.547-4	1.273-4
46	52	4.285-4	4.233-4	4.154-4	4.048-4	3.920-4	3.779-4	3.634-4	3.492-4	3.358-4	3.231-4	3.098-4
46	53	1.273-4	1.220-4	1.147-4	1.051-4	9.343-5	8.021-5	6.632-5	5.278-5	4.046-5	2.993-5	2.144-5
47	48	2.203-1	2.199-1	2.182-1	2.151-1	2.105-1	2.047-1	1.980-1	1.910-1	1.840-1	1.775-1	1.704-1
47	49	5.531-2	5.506-2	5.447-2	5.350-2	5.213-2	5.037-2	4.830-2	4.604-2	4.375-2	4.158-2	3.939-2
47	50	6.419-4	6.302-4	6.104-4	5.820-4	5.452-4	5.012-4	4.516-4	3.988-4	3.449-4	2.924-4	2.429-4
47	51	1.038-3	1.017-3	9.845-4	9.395-4	8.835-4	8.198-4	7.522-4	6.851-4	6.216-4	5.638-4	5.105-4
47	52	1.680-3	1.641-3	1.585-3	1.512-3	1.421-3	1.316-3	1.203-3	1.088-3	9.779-4	8.761-4	7.823-4
47	53	2.938-3	2.922-3	2.900-3	2.873-3	2.841-3	2.808-3	2.776-3	2.747-3	2.721-3	2.696-3	2.651-3
48	49	6.043-2	5.943-2	5.785-2	5.559-2	5.258-2	4.883-2	4.451-2	3.985-2	3.520-2	3.086-2	2.693-2
48	50	1.065-3	1.051-3	1.031-3	1.002-3	9.660-4	9.237-4	8.771-4	8.285-4	7.797-4	7.322-4	6.835-4
48	51	1.462-3	1.442-3	1.409-3	1.363-3	1.303-3	1.231-3	1.150-3	1.064-3	9.758-4	8.894-4	8.029-4
48	52	1.759-3	1.732-3	1.686-3	1.618-3	1.530-3	1.424-3	1.305-3	1.179-3	1.051-3	9.285-4	8.131-4
48	53	5.790-4	5.552-4	5.222-4	4.790-4	4.261-4	3.661-4	3.030-4	2.414-4	1.852-4	1.372-4	9.852-5
49	50	1.361-3	1.298-3	1.217-3	1.113-3	9.890-4	8.485-4	7.010-4	5.573-4	4.270-4	3.163-4	2.276-4
49	51	1.785-3	1.702-3	1.595-3	1.460-3	1.297-3	1.113-3	9.208-4	7.340-4	5.649-4	4.216-4	3.067-4
49	52	2.072-3	1.975-3	1.850-3	1.692-3	1.504-3	1.292-3	1.069-3	8.538-4	6.586-4	4.929-4	3.599-4
49	53	1.714-2	1.708-2	1.699-2	1.688-2	1.677-2	1.667-2	1.659-2	1.653-2	1.648-2	1.641-2	1.617-2
50	51	5.783-1	5.702-1	5.569-1	5.383-1	5.150-1	4.884-1	4.603-1	4.325-1	4.068-1	3.838-1	3.618-1
50	52	1.614-1	1.547-1	1.456-1	1.342-1	1.207-1	1.063-1	9.204-2	7.918-2	6.849-2	6.019-2	5.375-2
50	53	1.699-1	1.621-1	1.513-1	1.374-1	1.206-1	1.019-1	8.274-2	6.452-2	4.845-2	3.517-2	2.478-2
51	52	6.843-1	6.719-1	6.529-1	6.271-1	5.955-1	5.597-1	5.225-1	4.866-1	4.540-1	4.258-1	4.000-1
51	53	2.376-1	2.267-1	2.116-1	1.921-1	1.686-1	1.424-1	1.156-1	9.014-2	6.769-2	4.914-2	3.462-2
52	53	3.052-1	2.911-1	2.717-1	2.466-1	2.164-1	1.827-1	1.483-1	1.156-1	8.685-2	6.306-2	4.445-2