Table 1. Optical and radio positions of the new galactic bulge PNe. The radio position is the position of the peak flux density per beam of the PN at 6 cm. Objects for which run=1 were observed in 1997, objects for which run=2 were observed in 1999

JaSt	Optical (2000.0)		Radio (2000.0)		ΔRA	ΔDEC	run	comment
	RA(h m s)	DEC (° ′ ″)	RA(h m s)	DEC (° ′ ″)	″	″		
1	17 34 43.64	-29 47 05.03	17 34 43.60	-29 47 06.03	-0.60	1.00	2	
2	17 35 00.96	-29 22 15.72	17 35 00.96	-29 22 15.85	0.00	0.13	1	
3	17 35 22.90	-29 22 17.58	17 35 22.79	-29 22 17.08	-1.65	-0.50	1	
4	17 35 37.47	-29 13 17.67	17 35 37.39	-29 13 17.81	-1.20	0.14	1	
5	17 35 52.51	-28 58 27.95	17 35 52.44	-28 58 27.45	-1.05	-0.50	1	
7	17 38 26.69	-28 47 06.48					2	not detected
8	17 38 27.74	-28 52 01.31	17 38 27.58	-28 52 01.36	-2.40	0.05	2	
9	17 38 45.64	-29 08 59.27	17 38 45.54	-29 08 55.65	-1.50	-3.62	2	
11	17 39 00.55	-30 11 35.23	17 39 00.48	-30 11 32.23	-1.05	-3.00	2	
16	17 39 22.70	-29 41 46.08	17 39 22.64	-29 41 45.35	-0.90	-0.70	1	
17	17 39 31.32	-27 27 46.78	17 39 31.21	-27 27 47.28	-1.65	-0.50	1	
19	17 39 39.38	-27 47 22.58	17 39 39.31	-27 47 22.21	-1.05	-0.37	1	
21	17 39 52.92	-27 44 20.54					2	not detected
23	17 40 23.17	-27 49 12.04	17 40 23.08	-27 49 12.29	-1.35	0.25	1	
24	17 40 28.23	-30 13 51.30	17 40 28.19	-30 13 51.00	-0.60	-0.30	1	
26	17 40 33.52	-29 46 14.98	17 40 33.25	-29 46 12.48	-4.05	-2.50	2	
27	17 40 42.34	-28 12 31.90	17 40 42.16	-28 12 30.81	-2.7	-1.1	1	
31	17 41 27.93	-28 52 51.61	17 41 27.89	-28 52 50.61	-0.60	-1.00	1	
34	17 41 54.80	-27 03 20.33	17 41 54.69	-27 03 18.33	-1.65	-2.00	2	
36	17 42 25.20	-27 55 36.36	17 42 25.13	-27 55 36.36	-1.05	0.00	1	
37	17 42 28.60	-30 09 34.93	17 42 28.52	-30 09 32.93	-2.00	-2.00	1	
38	17 42 32.41	-27 33 15.18	17 42 32.29	-27 33 16.26	-1.80	1.08	1	
41	17 42 49.96	-27 21 19.68	17 42 49.85	-27 21 19.31	-1.65	-0.37	1	
42	17 43 17.06	-26 44 17.67	17 43 16.98	-26 44 18.25	-1.20	0.58	1	
44	17 43 23.48	-27 34 06.03	17 43 23.52	-27 34 06.55	0.60	0.52	1	
45	17 43 23.44	-27 11 16.91					2	not detected
46	17 43 30.43	-26 47 32.33	17 43 30.36	-26 47 31.83	-1.05	-0.50	1	
49	17 44 04.34	-28 15 57.86	17 44 04.23	-28 15 56.99	-1.65	-0.87	1	
52	17 44 37.30	-26 47 25.23	17 44 37.23	-26 47 25.23	-1.05	0.00	1	
54	17 45 11.06	-27 32 36.80	17 45 11.02	-27 32 36.80	-0.60	0.00	2	
55	17 45 37.36	-27 01 18.44	17 45 37.15	-27 01 18.16	-3.15	-0.28	1	
56	17 45 47.05	-27 30 42.03	17 45 46.96	-27 30 42.01	-1.35	-0.02	2	
58	17 46 52.20	-30 37 42.83	17 46 52.32	-30 37 42.33	1.80	-0.50	2	
60	17 47 53.91	-29 36 49.67	17 47 53.91	-29 36 49.67	0.00	0.00	2	
63	17 48 46.27	-27 25 37.22	17 48 46.27	-27 25 36.72	0.00	-0.50	1	
64	17 48 56.04	-31 06 41.95	17 48 56.04	-31 06 42.45	0.00	0.50	1	
65	17 49 20.02	-30 36 05.57	17 49 20.02	-30 36 05.08	0.00	0.23	1	
66	17 49 22.15	-29 59 27.02	17 49 22.11	-29 59 27.02	-0.60	0.00	2	
67	17 49 28.10	-29 20 47.56	17 49 28.02	-29 20 47.56	-1.20	0.00	2	
68	17 49 50.87	-30 03 10.47	17 49 50.83	-30 03 10.97	-0.60	0.50	2	
69	17 50 10.04	-29 19 05.14	17 50 10.11:	-29 19 08.82:	1.05	3.68	1	
70	17 50 21.07	-28 39 02.46	17 50 21.03	-28 39 01.46	-0.60	1.0	2	
71	17 50 23.32	-28 33 10.95	17 50 23.21	-28 33 10.45	-1.65	-0.50	1	
73	17 50 47.74	-29 53 16.01	17 50 47.82	-29 53 14.01	1.20	-1.99	2	
74	17 50 46.85	-28 44 35.42	17 50 46.77	-28 44 34.92	-1.20	-0.50	1	
75	17 50 48.08	-29 24 43.60	17 50 48.00	-29 24 43.18	-1.20	-0.42	1	
76	17 50 56.47	-28 31 24.63	17 50 56.33	-28 31 24.13	-2.10	-0.50	2	
77	17 51 11.65	-28 56 27.20	17 51 11.58	-28 56 27.20	-1.20	0.00	1	
78	17 51 24.68	-28 35 40.34	17 51 24.79	-28 35 39.44	1.65	-0.90	1	
79	17 51 53.63	-29 30 53.41	17 51 53.55	-29 30 53.41	-1.20	0.00	1	
80	17 51 55.54	-27 48 02.46					1	not detected
81	17 52 04.35	-27 36 39.28	17 52 04.28	-27 36 38.28	-1.05	1.00	1	
83	17 52 45.17	-29 51 05.21	17 52 45.17	-29 51 03.30	0.00	-1.91	1	
85	17 52 49.05	-29 41 54.92	17 52 48.97	-29 41 55.92	-1.20	1.0	2	
86	17 52 52.20	-29 30 00.07	17 52 52.16	-29 30 01.08	-0.60	1.08	1	
88	17 53 00.89	-29 05 44.08					2	not detected
89	17 53 06.67	-28 18 07.91	17 53 06.79	-28 18 10.47	1.80	2.56	1	
90	17 53 17.77	-28 04 33.20	17 53 17.73	-28 04 32.67	-0.60	-0.53	2	
92	17 53 19.81	-28 27 14.67					2	not detected
93	17 53 24.14	-29 49 48.45	17 53 24.05:	-29 49 51.15:	-1.35	2.70	1	
95	17 53 35.38	-28 28 51.02	17 53 35.51	-28 28 51.96	1.95	0.94	1	
96	17 53 57.16	-29 20 14.97					2	not detected
97	17 54 13.36	-28 05 16.82	17 54 13.28	-28 05 16.82	-1.20	0.00	1	
98	17 55 46.39	-27 53 38.91	17 55 46.28	-27 53 38.41	-1.65	-0.50	1	

Table 2. Radio flux densities at 6 and 3 cm, and angular sizes are presented. The name of the PN is listed in the first column. The second to sixth columns give the peak flux density per beam, the total radio flux density, the error estimate, and the rms in the map respectively. Columns six to nine list the same quantities at 3 cm. The tenth column gives the deconvolved FWHM in arcsec ($\Delta\delta$ x $\Delta\alpha$). The eleventh column gives the FWHM of the beam major and minor axis in arcsec ($\Delta\delta$ x $\Delta\alpha$). The thirteenth column gives the equivalent FWHM diameter. The fourteenth column indicates whether the diameter FWHM is the deconvolved FWHM determined after fitting a Gaussian model (G) or after measuring the size from the contour plot (C). All diameters were determined at 6 cm unless otherwise mentioned. The last column gives an estimate of the full equivalent diameter as explained in the text. PS stands for Point Source. Values which are very uncertain are marked with a colon.

Name JaSt	6cm Peak mJy/ beam	Flux mJy	error mJy	noise mJy/	3cm Peak mJy/ beam	Flux mJy beam	error mJy	noise mJy/	size $\Delta\delta$ x $\Delta\alpha$ ″ x ″ beam	beam maj x min ″ x ″	FWHM diam ″	method	θ
1	0.85	1.6	0.2	0.10	0.47	1.4	0.6	0.12	4.5 x 2.6	4.3 x 1.9	3.4	G	5.5
2	1.8	4.3	0.5	0.22	0.82	4.2	1.4	0.12	5.0 x 4.0	4.7 x 1.8	4.5	C	6.3
3	4.0	12.4	1.2	0.17	1.6	10.0	1.0	0.13	5.8 x 4.4	4.8 x 2.0	5.1	C	9.2
4	1.2	4.1	0.4	0.20	0.65	3.5	1.2	0.15	7.7 x 7.1	4.7 x 1.8	7.4	C	11.2
5	4.0	11.3	1.1	0.15	1.8	10.5	1.0	0.15	6.2 x 5.1	4.9 x 2.0	5.6	C	8.4
8	1.2	3.8	0.4	0.08	0.5	2.6	0.6	0.04	3.6 x 5.8	4.4 x 1.9	4.6	C	7.2
9	0.96	4.0	0.4	0.08	0.38	2.5	0.8	0.08	5.6 x 6.2	4.7 x 1.8	5.9	C	8.1
11	0.76	3.3	0.3	0.07	0.41	>2.0		0.12	6.9 x 5.9	4.6 x 1.8	6.4	C	10.9
16	13.6	27.0	2.8	0.27	7.2	24.7	2.5	0.30	3.4 x 2.4	4.8 x 2.0	2.9	G	4.8
17	2.5	9.4	1.0	0.15	1.2	8.2	0.9	0.13	5.4 x 5.3	5.7 x 1.8	5.3	C	7.9
19	2.1	6.8	0.8	0.29	1.0	5.5	0.6	0.14	3.6 x 3.7	5.3 x 1.6	3.6	C	6.8
23	3.3	3.7	0.4	0.25	2.6	3.9	0.4	0.21	PS	3.1 x 1.1	<1.8	G_{3cm}	
24	6.3	16.0	1.7	0.27	2.7	14.1	1.4	0.23	4.8 x 2.7	4.9 x 1.7	3.6	G	5.8
26	2.4	14.1	1.4	0.09	1.0	9.0	0.9	0.08	9.4 x 9.3	5.1 x 1.7	8.5	C	11.1
27	0.8	2.5	0.3	0.14	0.5			0.15	9.9 x 5.3	5.3 x 1.7	8.2	C	8.7
31	3.3	11.5	1.2	0.22	2.4	>3.0		0.61	5.0 x 5.1	5.1 x 1.7	5.0	C	9.0
34	0.58	1.7	0.2	0.07	0.34	>1.5		0.09	3.2 x 6.0	5.1 x 1.7	4.4	C	7.1
36	18.6	31.1	3.1	0.33	11.7	31.1	3.1	0.35	2.6 x 1.9	3.1 x 1.1	2.2	G_{3cm}	3.6
37	5.2	16.0	1.7	0.70	2.5	>5.5		0.35	5.7 x 3.8	4.6 x 1.5	4.6	C	7.4
38	1.2	3.0	0.6	0.28	0.9	2.0	0.7	0.15	6.8 x 2.2	5.3 x 1.7	3.9	C	7.0
41	8.0	16.7	1.7	0.20	4.6	17.6	1.8	0.18	3.4 x 3.2	5.6 x 1.8	3.3	C	6.3
42	5.6	12.9	1.3	0.21	3.3	15.5	1.6	0.26	4.0 x 2.5	5.5 x 1.6	3.1	G	5.0
44	1.3	3.8	1.0	0.27	0.9	>1.8		0.27	12.2: x 6.0:	5.4 x 1.6	8.6:	C	8.6:
46	14.6	20.8	2.1	0.40	12.3	20.5	2.1	0.30	2.0 x 1.1	3.3 x 1.1	1.5	G	2.5
49	3.1	8.2	0.9	0.27	2.1	10.8	1.1	0.21	4.6 x 3.6	5.2 x 1.6	4.0	C	6.6
52	20.8	24.0	2.4	0.34	16.9	22.8	2.3	0.40	2.5 x 0.4	3.3 x 1.1	1.0	G_{3cm}	1.7
54	21.9	82.3	8.2	0.08	7.5	75.2	7.5	0.09	4.7 x 4.3	5.1 x 1.8	4.5	G	7.2
55	2.0	9.2	0.9	0.19	0.9	10.0	2.0	0.17	5.5 x 6.4	5.4 x 1.6	6.0	C	10.7
56	5.8	14.1	1.4	0.09	2.4	12.2	1.2	0.07	3.8 x 2.7	2.8 x .95	3.2	G_{3cm}	5.0
58	3.5	29.5	2.9	0.06	1.3	21.3	2.1	0.07	8.9 x 8.0	4.6 x 1.7	8.4	C	15.5
60	6.1	6.5	0.7	0.06	7.0	7.9	0.8	0.07	.85 x .28	2.6 x 1.0	0.5	G_{3cm}	0.9
63	1.1	3.9	0.4	0.11	0.7	3.6	1.2	0.13	6.1 x 6.0	5.5 x 1.8	6.0	C	8.4
64	23.8	28.3	2.9	0.42	15.8	25.6	2.6	0.58	2.0 x 0.7	5.0 x 1.9	1.4	G	2.4
65	3.3	3.4	0.4	0.23	6.3	6.6	0.7	0.30	PS	2.7 x 1.0	< 1.6	G_{3cm}	
66	45.9	65.3	6.5	0.15	26.0	60.9	6.1	0.10	2.0 x 1.5	2.6 x 1.00	1.7	G_{3cm}	2.8
67	24.6	27.8	2.8	0.08	17.7	26.0	2.6	0.10	1.3 x .9	2.5 x 1.0	1.1	G $_{3cm}$	1.8
68	5.4	5.9	0.6	0.06	7.7	8.8	0.9	0.10	.8 x .3	2.5 x 1.0	1.5	G_{3cm}	0.9
69	0.9	>2.0		0.26	0.5	>2.0		0.15		4.9 x 1.7			
70	4.0	13.0	1.3	0.11	1.9	11.5	1.2	0.06	4.3 x 5.3	4.6 x 1.7	4.8	C	8.5
71	20.2	34.0	3.5	0.50	10.0	36.0	3.6	0.55	4.6 x 1.6	5.4 x 1.9	2.7	G	4.5
73	11.7	13.7	1.4	0.09	9.4	13.0	1.3	0.11	1.3 x .7	2.6 x 1.0	0.95	G_{3cm}	1.6
74	12.7	22.7	2.3	0.28	6.1	22.2	2.2	0.25	4.5 x 2.2	3.3 x 1.0	3.1	G_{3cm}	4.9
75	16.8	22.5	2.3	0.53	11.0	19.0	2.0	0.55	3.0 x 0.9	5.0 x 1.6	1.6	G	2.7
76	5.4	7.4	0.7	0.07	2.5	6.7	0.7	0.08	3.9 x 1.8	2.4 x 1.0	2.6	G_{3cm}	4.7
77	39.4	49.0	5.0	0.85	34.0	51.2	5.1	0.98	PS	3.1 x 1.1	<1.5	G_{3cm}	
78	1.5	12.3	1.2	0.18	0.9	9.0	2.3	0.15	12.0 x 9.0	5.1 x 1.6	10.4	C	14.6
79	4.1	4.1	0.4	0.14	6.7	7.0	0.7	0.23	PS	2.7 x 1.2	<1.5	G_{3cm}	
81	17.8	20.8	2.0	0.25	14.1	20.8	2.1	0.29	1.8 x 0.7	5.1 x 2.0	1.3	G	2.2
83	1.7	5.0:	2.5	0.40	0.6	>0.6		0.16	5.3: x 5.7:	4.5 x 1.8	>5.5:	C	>6.3
85	0.6	4.4	1.2	0.09					13.1: x 13.1:	4.2 x 1.9	13.1:	C	17.5:
86	1.7	8.5	0.9	0.17	0.9	>2.5		0.17	7.5 x 7.7	4.7 x 1.8	7.6	C	11.4
89	1.8	8.5	0.9	0.27	0.8	>2.0		0.19	9.5 x 5.5	4.8 x 1.7	7.2	C	8.6
90	0.51	1.0	0.2	0.07				0.13	4.5 x 2.5	4.4 x 1.9	3.4	G	5.5
93	0.8	6.3	0.9	0.15	0.6	>2.1		0.13	20.2 x 8.0	4.8 x 2.0	12.7:	C	17.8:
95	1.1	5.5	1.0	0.25	0.7	4.5:	1.5	0.18	14.6 x 7.5	4.8 x 1.8	10.5	C	12.6
97	2.7	11.5	1.2	0.16	1.2	11.8	1.2	0.18	8.0 x 5.9	5.2 x 1.9	6.8	C	11.4
98	21.0	21.8	2.2	0.38	20.3	24.0	2.4	0.46	PS	2.9 x 1.1	<1.5	G_{3cm}	