| HR # | NAME [a] | $m_H^b$ | ST | Class | RV (km $s^{-1}$) [c] | vsini (km $s^{-1}$) |
|---|---|---|---|---|---|---|
| 1903 | *46 $\epsilon$ Ori | 2.4 | B0 | Ia | 26SB | 87 |
| 1203 | 44 $\zeta$ Per | 3.4 | B1 | Ib | 20SB | 59 |
| 2827 | 31 $\eta$ CMa | 2.5 | B5 | Ia | 41V | 45 |
| 1713 | *19 $\beta$ Ori | 0.1 | B8 | Ia | 21SB | 33 |
| 3975 | *30 $\eta$ Leo | 3.3 | A0 | Ib | 3V | 20 |
| 7924 | *50 $\alpha$ Cyg | 1.0 | A2 | Ia | -5SBO | 21 |
| 1865 | 11 $\alpha$ Lep | 2.0 | F0 | Ib | 24 | 13 |
| 1017 | *33 $\alpha$ Per | 0.9 | F5 | Ib | -2V | 18 |
| 7796 | *37 $\gamma$ Cyg | 1.1 | F8 | Ib | -8V | 20 |
| 8232 | *22 $\beta$ Aqr | 1.5 | G0 | Ib | 7V? | 18 |
| 7479 | 5 $\alpha$ Sge | 2.4 | G1 | II | 2V? | 0 |
| 7063 | $\beta$ Sct | 2.2 | G4 | IIa | -22SB10 | 10 |
| 8752 | *- | 3.6 | G4v | $> I^d$ | -58V? | 35 |
| 7314 | *21 $\theta$ Lyr | 2.1 | K0 | +II | -31V | <19 |
| 6713 | 93 Her | 2.4 | K0.5 | IIb | -24 | <17 |
| 8465 | *21 $\zeta$ Cep | 1.1 | K1.5 | Ib | -18SB | <17 |
| 6498 | 49 $\sigma$ Oph | 1.9 | K2 | II | -27 | <19 |
| 603 | 57 $\gamma^1$ And | -0.5 | K3 | -IIb | -12SB | <17 |
| 8089 | *63 Cyg | 1.5 | K4 | Ib-IIa | -26V | – |
| 8079 | *62 $\xi$ Cyg | 0.5 | K4.5 | Ib-II | -20SB | <17 |
| 2061 | 58 $\alpha$ Ori | -2.? | M1-2 | Ia-Iab | 21SB | – |
| 1155 | *– | 0.5 | M2 | +IIab | -3V | – |
| 921 | 25 $\rho$ Per | -1.7 | M4 | II | 28 | – |
| 7009 | *– | 0.6 | M4.5-M5 | +II | -19 | – |
| 6406 | *64 $\alpha^1$ Her | -2.4 | M5 | Ib-II | -33V | 21 |

[a] "*" indicates that the object also appears in the K–band atlas of WH97.

[b] H–band magnitudes estimated from V–band magnitude from the Bright Star Catalogue, spectral type, and intrinsic colors (Koornneef, 1983).

[c] "V" and "V?" indicate variable or suspected variable radial velocity respectively. "SB1" and "SB2" indicate single– and double–lined spectroscopic binaries respectively. "O" indicates that orbital data is available in the Bright Star Catalogue.

[d] Previously classified as G0Ia, but it is intrinsically brighter.

[e] Taken from Jaschek, Jaschek, and Condi (1964).

[f] Taken from Henry, Kirkpatrick, and Simons (1994).

| HR # | NAME [a] | $m_H^b$ | ST | Class | RV (km $s^{-1}$) [c] | vsini (km $s^{-1}$) |
|---|---|---|---|---|---|---|
| 1899 | 44 $\iota$ Ori | 3.5 | O9 | III | 22SB2O | 130 |
| 1552 | 3 $\pi^4$ Ori | 4.1 | B2+B2 | III | 23SBO | 40 |
| 5291 | *11 $\alpha$ Dra | 3.5 | A0 | III | -13SBO | 18 |
| 403 | *37 $\delta$ Cas | 2.3 | A5 | III-IV | 7SB | 113 |
| 1412 | *78 $\theta^2$ Tau | 2.9 | A7 | III | 40SB1O | 78 |
| 4031 | *36 $\zeta$ Leo | 2.8 | F0 | III | -16SB | 84 |
| 21 | * 11 $\beta$ Cas | 1.6 | F2 | III–IV | 12SB | 70 |
| 5017 | *20 CVn | 3.9 | F3 | III | 8V? | 17 |
| 2706 | 48 Gem | 5.0 | F5 | III-IV | 13V | 74 |
| 8905 | *68 $\upsilon$ Peg | 3.3 | F8 | III | -11 | 79 |
| 4883 | *31 Com | 3.0 | G0 | III | -1V? | 77 |
| 4716 | 5 CVn | 2.8 | G6 | III | -12SB | <17 |
| 7328 | 1 $\kappa$ Cyg | 1.6 | G9 | III | -29SB | <17 |
| 7949 | 53 $\epsilon$ Cyg | 0.2 | K0 | -III | -11SB? | <17 |
| 8317 | *11 Cep | 2.3 | K1 | III | -37 | <17 |
| 6299 | *27 $\kappa$ Oph | 0.8 | K2 | III | -56V | <17 |
| 165 | 31 $\delta$ And | 0.5 | K3 | III | -7SB1O | <17 |
| 6705 | *33 $\gamma$ Dra | -1.2 | K5 | III | -28 | <17 |
| 152 | – | 1.7 | K5-M0 | III | -33V | <17 |
| 4517 | *3 $\nu$ Vir | 0.3 | M1 | IIIab | 51V? | – |
| 6242 | – | 0.4 | M4 | +III-IIIa | -7V? | – |
| 7886 | *– | -0.6 | M6 | III | -66V? | – |

| HR # | NAME [a] | $m_H^b$ | ST | Class | RV (km s$^1$) [c] | vsini (km s$^1$) |
|---|---|---|---|---|---|---|
| 6588 | 85 $\iota$ Her | 4.3 | B3 | IV | -20SB1O | 11 |
| 4033 | *33 $\lambda$ UMa | 3.3 | A2 | IV | 18V | 48 |
| 1351 | 57 Tau | 4.9 | F0 | IV | 42SB1? | 109 |
| 5235 | 8 $\eta$ Boo | 1.5 | G0 | IV | 0SB1O | 13 |
| 5409 | 105 $\phi$ Vir | 2.8 | G2 | IV | -10SB | 0 |
| 6623 | 86 $\mu$ Her | 1.4 | G5 | IV | -16V | 20 |
| 995 | 59 Ari | 3.9 | G6 | IV | 0V | – |
| 7602 | 60 $\beta$ Aql | 1.7 | G8 | IV | -40V | $< 16$ |
| 7957 | *3 $\eta$ Cep | 1.2 | K0 | IV | -87 | $<17$ |
| 5901 | 11 $\kappa$ CrB | 2.5 | K1 | IVa | -24 | $<17$ |
| 6014 | – | 3.6 | K1.5 | IV | -4V | – |
| 2456 | *15 Mon | 5.5 | O7 | V(e) | 33SB | 63 |
| 5191 | *85 $\eta$ UMa[e] | 2.4 | B3 | V | -11SB? | 205 |
| 3982 | *32 $\alpha$ Leo[e] | 1.6 | B7 | V | 6SB | 329 |
| 7001 | * $\alpha$ Lyr | 0.0 | A0 | V | -14V | 15 |
| 2491 | *9 $\alpha$ CMa | -1.5 | A1 | Vm | -8SBO | 13 |
| 4534 | *94 $\beta$ Leo[e] | 2.0 | A3 | V | 0V | 121 |
| 4357 | *68 $\delta$ Leo[e] | 2.3 | A4 | V | -20V | 181 |
| 4931 | 78 UMa | 4.1 | F2 | V | -10V? | 92 |
| 1279 | – | 5.1 | F3 | V | 36SB1? | 25 |
| 2943 | *10 $\alpha$ CMi | -0.6 | F5 | IV-V | -3SBO | 6 |
| 1538 | 59 Eri[e] | 2.3 | F6 | V | 35 | – |
| 4375 | *53 $\xi$ UMa | 3.0 | G0 | V | -16SB1O | 1 |
| 4983 | 43 $\beta$ Com | 3.1 | F9.5 | V | 6SB? | 6 |
| 483 | *– | 3.7 | G1.5 | V | 4V? | 2 |
| 4374 | 53 $\xi$ UMa | 3.5 | G0 | V | -16SB1O | 3 |
| 5072 | 70 Vir | 3.6 | G4 | V | 5V | 1 |
| 4496 | *61 UMa | 3.8 | G8 | V | -5V | $<17$ |
| 7462 | *61 $\sigma$ Dra | 3.0 | K0 | V | 27V | $<17$ |
| 1084 | *18 $\epsilon$ Eri | 1.6 | K2 | V | 15V? | $<17$ |
| 8832 | *– | 3.2 | K3 | V | -18V | – |
| – | GL570A | 3.0 | K4 | V | - | - |
| 8085 | *61 Cyg | 2.4 | K5 | V | -64V | $<17$ |
| 8086 | 61 Cyg | 3.1 | K7 | V | -64V? | $=<25$ |
| – | GL338A | 4.5 | M0 | V | - | - |
| – | GL526[f] | 4.5 | M1.5 | V | - | - |
| – | *GL411 | 3.6 | M2 | V | - | - |
| – | *GL725A | 4.7 | M3 | V | - | - |

| HR # | NAME | Vmag[1] | ST | Class | RADV[2] | ROTV[2] |
|---|---|---|---|---|---|---|
| 2456 | 15 Mon | 4.66 | O7 | V((f)) | 33SB | 63 |
| 5191 | 85 $\eta$ UMa | 1.86 | B3 | V | -11SB? | 205 |
| 3982 | 32 $\alpha$ Leo | 1.35 | B7 | V | 6SB | 329 |
| 2491 | 9 $\alpha$ CMa | -1.4 | A1 | Vm | -8SBO | 13 |
| 4534 | 94 $\beta$ Leo | 2.14 | A3 | V | 0V | 121 |
| 4357 | 68 $\delta$ Leo | 2.56 | A4 | V | -20V | 181 |
| 4931 | 78 UMa | 4.93 | F2 | V | -10V? | 92 |
| 1279 | – | 6.01 | F3 | V | 36SB1? | 25 |
| 2943 | 10 $\alpha$ CMi | 0.38 | F5 | IV-V | -3SBO | 6 |
| 1538 | 59 Eri | 5.77 | F6 | V | 35 | – |
| 4375 | 53 $\xi$ UMa | 4.41 | G0 | V | -16SB1O | 1 |
| 4983 | 43 $\beta$ Com | 4.26 | F9.5 | V | 6SB? | 6 |
| 483 | – | 4.95 | G1.5 | V | 4V? | 2 |
| 4374 | 53 $\xi$ UMa | 4.87 | G0 | V | -16SB1O | 3 |
| 5072 | 70 Vir | 4.98 | G4 | V | 5V | 1 |
| 4496 | 61 UMa | 5.33 | G8 | V | -5V | <17 |
| 7462 | 61 $\sigma$ Dra | 4.68 | K0 | V | 27V | <17 |
| 1084 | 18 $\epsilon$ Eri | 3.73 | K2 | V | 15V? | <17 |
| 8832 | – | 5.56 | K3 | V | -18V | – |
| GL570A | - | - | - | - | - | - |
| 8085 | 61 Cyg | 5.21 | K5 | V | -64V | <17 |
| 8086 | 61 Cyg | 6.03 | K7 | V | -64V? | =<25 |
| GL338A | - | - | - | - | - | - |
| GL411 | - | - | - | - | - | - |
| GL526 | - | - | - | - | - | - |
| GL725A | - | - | - | - | - | - |

| Spectral Type [a] | $T^{b}_{I-II}$ | $T^{b,c}_{III}$ | | $T^{b}_{IV-V}$ |
|---|---|---|---|---|
| O6-O8– | ··· | 37000 | 38000 | |
| O9– | 32500 | 32000 | 33200 | |
| O9.5– | ··· | ··· | 31450 | |
| B0– | 26000 | 29000 | 29700 | |
| B1– | 20700 | 24000 | 25600 | |
| B2– | 17800 | 20300 | 22300 | |
| B3– | 15600 | 17100 | 19000 | |
| B4 | 13900 | ··· | 17200 | |
| B5– | 13400 | 15000 | 15400 | |
| B6 | 12700 | 14100 | 14100 | |
| B7– | 12000 | 13200 | 13000 | |
| B8– | 11200 | 12400 | 11800 | |
| B9– | 10500 | 11000 | 10700 | |
| A0– | 9730 | 10100 | 9480 | |
| A1– | 9230 | 9480 | | ··· |
| A2 | 9080 | 9000 | 8810 | |
| A5– | 8510 | 8100 | 8160 | |
| A7– | ··· | 7650 | 7930 | |
| F0– | 7700 | 7150 | 7020 | |
| F2– | 7170 | 6870 | 6750 | |
| F5– | 6640 | 6470 | 6530 | |
| F7– | ··· | ··· | 6240 | |
| F8– | 6100 | 6150 | | ··· |

[a] "–" denotes full sub–class in the revised MK system. Other full sub–classes for which temperatures are not available without interpolation include B0.5, A3, A8, F3, F9, and G5.

[b] Data taken from Tokunaga, 1996, Astrophysical Quantities, in press.

[c] For giant stars G0 and later data taken from Schmidt–Kaler (1982).

[d] Temperature for star of Luminosity Class Iab.

| Spectral Type [a] | $T^{b}_{I-II}$ | $T^{b,c}_{III}$ | $T^{b}_{IV-V}$ |
|---|---|---|---|
| G0– | 5510 | 5910 | 5930 |
| G2 | ⋯ | ⋯ | 5830 |
| G3 | 4980 | ⋯ | ⋯ |
| G4 | ⋯ | 5190 | 5740 |
| G6 | ⋯ | 5050 | 5620 |
| G8– | 4590 | 4960 | ⋯ |
| K0– | 4420 | 4810 | 5240 |
| K1– | 4330 | 4610 | ⋯ |
| K2– | 4260 | 4500 | 5010 |
| K3– | 4130[d] | 4320 | ⋯ |
| K4– | ⋯ | 4080 | 4560 |
| K5– | 3850[d] | 3980 | 4340 |
| K7 | ⋯ | ⋯ | 4040 |
| M0– | 3650[d] | 3820 | 3800 |
| M1– | 3550[d] | 3780 | 3680 |
| M2– | 3450[d] | 3710 | 3530 |
| M3– | 3200[d] | 3630 | 3380 |
| M4– | 2980[d] | 3560 | 3180 |
| M5– | ⋯ | 3420 | 3030 |
| M6– | ⋯ | 3250 | 2850 |

| Date | Type | # of Stars |
|---|---|---|
| March 9–10, 1993 | Day | 17 |
| April 1–3, 1993 | Day/Night | 30 |
| May 18–19, 1993 | Day | 10 |
| January 30–31, 1994 | Day/Night | 42 |

Table 1: H–Band Spectral Indices for Classification of A-M Stars

| Main Feature [a] | $E_{low}$ (ev) | $\sigma$ ($cm^{-1}$) [a] | $\lambda$ ($\mu$m) | $\sigma_{cent}$ ($cm^{-1}$) | $\Delta\sigma$ ($cm^{-1}$) | Other contr. [a] |
|---|---|---|---|---|---|---|
| MgI(4s–4p) | 5.39 [b] | 5843.41 | 1.71133 | 5844 | 10 | CO, Fe, Ni, OH |
| OH($\Delta v = 2$) | 0.76 [c] | 5920: | 1.689 | 5920 | 20 | C, CO, Fe, Ni |
| HI(4-11) | 12.75 [d] | 5948.50 | 1.68110 | 5950 | 20 | CO, Fe, Ni, Si |
| AlI(4p–4d tr) | 4.09 [e] | 5963.76 | 1.67679 | 5972.5 | 25 | CO, Fe, Ni, OH |
| | | 5968.31 | 1.67552 | | | |
| | | 5979.60 | 1.67235 | | | |
| SiI(4p–3d) | 5.98 [f] | 5993.29 | 1.66853 | 5993 | 10 | CO, Fe, Ni, OH |
| $^{12}$CO(8,5)bh | 1.55 [g] | 6018 | 1.662 | 6017.5 | 15 | Fe, OH, S |
| $^{12}$CO(6,3)bh | 1.05 [g] | 6177 | 1.619 | 6170 | 50 | Ca, Fe, Ni, OH, Si |
| SiI(4p–5s) | 5.98 [f] | 6263.92 | 1.59644 | 6264 | 10 | Fe, Mg, Ni, OH |
| MgI(4s–4p tr) | 5.93 [b] | 6341.10 | 1.57701 | 6345 | 20 | CN, CO, Fe, $H_2O$, Ni, OH |
| | | 6347.88 | 1.57533 | | | |
| | | 6351.22 | 1.57450 | | | |

[a] Species indentification and frequencies from LW91 and WL92.

[b] Lower state energy level from Risberg (1965).

[c] Coxon and Forester (1982).

[d] Garcia and Mack (1965).

[e] Eriksson and Isberg (1963).

[f] Litzen (1964).

[g] George, Urban, & LeFloch (1994).

| Source | $T_e$ | SNR | Mg5844 | OH5920 | HI5950 | Al5973 | Si5993 | CO6018 | CO6170 | Si6264 | Mg6345 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HR1903 | 26000 | 203 | -0.03 | 0.09 | 0.75 | 0.17 | -0.02 | 0.11 | 0.27 | 0.11 | 0.47 |
| HR1903 | 26000 | 167 | 0.01 | 0.07 | 0.73 | 0.11 | -0.00 | 0.09 | 0.19 | 0.12 | 0.32 |
| HR1203 | 20700 | 160 | -0.01 | 0.12 | 0.80 | 0.18 | 0.01 | 0.11 | 0.23 | 0.11 | 0.56 |
| HR2827 | 13400 | 045 | -0.05 | -0.02 | 1.06 | -0.04 | 0.20 | -0.04 | 0.01 | -0.05 | 0.08 |
| HR1713 | 11200 | 218 | 0.04 | 0.06 | 1.27 | 0.23 | 0.05 | 0.09 | 0.19 | 0.17 | 0.50 |
| HR3975 | 9730 | 068 | -0.08 | 0.11 | 2.12 | 0.23 | 0.12 | -0.09 | 0.33 | 0.20 | 0.58 |
| HR7924 | 9080 | 225 | -0.05 | 0.00 | 1.40 | 0.20 | -0.02 | 0.03 | -0.14 | 0.08 | 0.08 |
| HR1865 | 7700 | 196 | -0.01 | 0.22 | 2.21 | 0.32 | 0.14 | -0.13 | 0.30 | 0.25 | 0.52 |
| HR1017 | 6640 | 248 | 0.08 | 0.25 | 1.88 | 0.43 | 0.06 | -0.02 | 0.53 | 0.41 | 1.05 |
| HR7796 | 6100 | 324 | 0.10 | 0.29 | 1.58 | 0.69 | 0.14 | 0.03 | 0.79 | 0.60 | 0.94 |
| HR8232 | 5510 | 290 | 0.09 | 0.37 | 1.28 | 0.67 | 0.17 | 0.03 | 1.18 | 0.67 | 1.19 |
| HR8752 | 5510 | 084 | -0.13 | 0.34 | 1.16 | 0.14 | 0.07 | 0.02 | 0.16 | 0.16 | 0.41 |
| HR7479 | 5333 | 096 | 0.15 | 0.13 | 1.13 | 0.70 | 0.10 | 0.00 | 0.92 | 0.41 | 0.69 |
| HR7479 | 5333 | 109 | 0.10 | 0.22 | 1.07 | 0.49 | 0.11 | 0.02 | 0.76 | 0.54 | 1.04 |
| HR7479 | 5333 | 182 | 0.13 | 0.12 | 1.08 | 0.56 | 0.05 | 0.07 | 0.94 | 0.49 | 1.06 |
| HR7479 | 5333 | 093 | 0.06 | -0.02 | 1.20 | 0.53 | 0.03 | 0.14 | 1.05 | 0.54 | 0.93 |
| HR7063 | 4902 | 260 | 0.17 | 0.12 | 0.94 | 0.84 | 0.14 | 0.25 | 1.66 | 0.76 | 1.06 |
| HR7314 | 4420 | 193 | 0.23 | 0.15 | 0.84 | 0.88 | 0.15 | 0.46 | 2.25 | 1.00 | 1.60 |
| HR7314 | 4420 | 257 | 0.15 | 0.17 | 0.67 | 0.59 | 0.10 | 0.37 | 1.91 | 0.86 | 1.36 |
| HR6713 | 4375 | 265 | 0.22 | 0.19 | 0.81 | 0.80 | 0.16 | 0.40 | 1.86 | 0.79 | 1.25 |
| HR8465 | 4295 | 308 | 0.13 | 0.28 | 0.68 | 0.70 | 0.19 | 0.63 | 2.35 | 1.02 | 1.79 |
| HR6498 | 4260 | 247 | 0.24 | 0.30 | 0.84 | 1.00 | 0.21 | 0.83 | 2.75 | 1.11 | 1.84 |
| HR603 | 4130 | 453 | 0.24 | 0.34 | 0.69 | 0.61 | 0.19 | 0.49 | 2.09 | 0.87 | 1.46 |
| HR8089 | 3990 | 202 | 0.21 | 0.45 | 0.50 | 0.67 | 0.14 | 0.68 | 2.26 | 0.94 | 1.59 |
| HR8079 | 3920 | 445 | 0.24 | 0.67 | 0.62 | 0.80 | 0.24 | 1.05 | 2.70 | 1.05 | 1.72 |
| HR2061 | 3550 | 327 | 0.54 | 1.08 | 0.36 | 1.39 | 0.23 | 1.46 | 3.92 | 0.89 | 2.22 |
| HR1155 | 3450 | 237 | 0.46 | 1.31 | 0.58 | 1.12 | 0.38 | 1.37 | 3.35 | 1.12 | 2.03 |
| HR921 | 2980 | 225 | 0.77 | 1.41 | 0.29 | 1.27 | 0.37 | 1.10 | 4.08 | 0.67 | 1.52 |
| HR7009 | 2925 | 292 | 0.63 | 1.43 | 0.79 | 1.55 | 0.54 | 1.79 | 4.68 | 1.26 | 2.21 |
| HR6406 | 2800 | 319 | 0.59 | 1.41 | 0.80 | 1.66 | 0.54 | 1.85 | 4.98 | 1.31 | 2.31 |

| Source | $T_e$ | SNR | Mg5844 | OH5920 | HI5950 | Al5973 | Si5993 | CO6018 | CO6170 | Si6264 | Mg6345 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HR1899 | 32000 | 164 | -0.03 | 0.17 | 0.54 | 0.15 | -0.04 | 0.03 | 0.18 | 0.10 | 0.49 |
| HR1899 | 32000 | 182 | -0.04 | 0.20 | 0.62 | 0.11 | 0.05 | -0.03 | 0.07 | -0.00 | 0.07 |
| HR1552 | 20300 | 115 | -0.07 | 0.13 | 1.29 | 0.31 | 0.10 | -0.09 | 0.12 | -0.01 | 0.09 |
| HR5291 | 10100 | 159 | -0.07 | 0.19 | 2.65 | 0.78 | 0.02 | 0.05 | 0.28 | 0.11 | 0.41 |
| HR403 | 8100 | 202 | -0.02 | 0.39 | 2.79 | 0.77 | 0.09 | -0.13 | 0.25 | 0.08 | 0.54 |
| HR1412 | 7650 | 186 | -0.02 | 0.43 | 2.70 | 0.71 | 0.05 | -0.10 | 0.60 | 0.25 | 0.91 |
| HR4031 | 7150 | 193 | 0.02 | 0.29 | 2.30 | 0.54 | 0.12 | -0.09 | 0.25 | 0.13 | 0.48 |
| HR21 | 6870 | 245 | 0.03 | 0.32 | 1.99 | 0.55 | 0.04 | -0.11 | 0.20 | 0.22 | 0.82 |
| HR21 | 6870 | 179 | 0.01 | 0.25 | 2.21 | 0.63 | 0.13 | -0.14 | 0.46 | 0.24 | 0.69 |
| HR5017 | 6700 | 174 | 0.04 | 0.28 | 2.58 | 0.83 | 0.07 | -0.03 | 0.43 | 0.36 | 0.96 |
| HR2706 | 6470 | 086 | 0.01 | 0.39 | 2.08 | 0.47 | 0.16 | -0.10 | 0.13 | 0.20 | 0.64 |
| HR8905 | 6270 | 059 | 0.06 | 0.13 | 1.06 | 0.45 | -0.01 | -0.16 | 0.30 | 0.28 | 1.02 |
| HR4883 | 5910 | 280 | 0.15 | 0.20 | 1.07 | 0.52 | 0.09 | 0.04 | 0.90 | 0.43 | 1.02 |
| HR4716 | 5050 | 133 | 0.17 | 0.10 | 0.97 | 0.47 | 0.13 | 0.07 | 1.29 | 0.54 | 0.92 |
| HR7328 | 4885 | 281 | 0.19 | 0.20 | 0.78 | 0.57 | 0.11 | 0.11 | 1.33 | 0.67 | 1.35 |
| HR7949 | 4810 | 369 | 0.21 | 0.24 | 0.77 | 0.59 | 0.13 | 0.18 | 1.39 | 0.67 | 1.38 |
| HR8317 | 4710 | 191 | 0.29 | 0.14 | 0.63 | 0.58 | 0.08 | 0.26 | 1.79 | 0.83 | 1.64 |
| HR6299 | 4500 | 532 | 0.26 | 0.09 | 0.77 | 0.81 | 0.10 | 0.44 | 1.92 | 0.76 | 1.40 |
| HR165 | 4320 | 266 | 0.34 | 0.24 | 0.64 | 0.58 | 0.18 | 0.41 | 1.98 | 0.89 | 1.45 |
| HR6705 | 3990 | 298 | 0.39 | 0.60 | 0.77 | 1.12 | 0.26 | 0.96 | 3.05 | 1.12 | 1.75 |
| HR6705 | 3990 | 694 | 0.41 | 0.61 | 0.76 | 1.07 | 0.25 | 0.89 | 2.87 | 1.06 | 1.66 |
| HR152 | 3956 | 270 | 0.37 | 0.86 | 0.58 | 0.92 | 0.34 | 0.87 | 2.59 | 0.78 | 1.40 |
| HR4517 | 3780 | 673 | 0.66 | 1.06 | 0.33 | 1.07 | 0.21 | 0.89 | 3.14 | 0.70 | 1.93 |
| HR6242 | 3560 | 458 | 0.52 | 1.12 | 0.57 | 1.18 | 0.39 | 1.45 | 3.93 | 1.16 | 1.96 |
| HR7886 | 3250 | 574 | 0.61 | 1.54 | 0.89 | 1.71 | 0.64 | 2.25 | 5.69 | 1.41 | 2.42 |

| Source | $T_e$ | SNR | Mg5844 | OH5920 | HI5950 | Al5973 | Si5993 | CO6018 | CO6170 | Si6264 | Mg6345 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HR6588 | 19000 | 162 | -0.03 | 0.10 | 1.65 | 0.48 | -0.03 | 0.02 | 0.17 | 0.07 | 0.40 |
| HR4033 | 8810 | 146 | -0.00 | 0.33 | 2.62 | 0.73 | 0.06 | 0.02 | 0.27 | 0.13 | 0.35 |
| HR1351 | 7020 | 094 | -0.06 | 0.40 | 2.18 | 0.62 | 0.19 | -0.19 | -0.01 | 0.10 | 0.24 |
| HR5235 | 5930 | 341 | 0.16 | 0.12 | 1.21 | 0.83 | 0.11 | 0.03 | 1.30 | 0.64 | 1.14 |
| HR5235 | 5930 | 263 | 0.17 | 0.26 | 1.26 | 0.68 | 0.18 | -0.01 | 0.97 | 0.50 | 1.03 |
| HR5409 | 5830 | 158 | 0.16 | 0.16 | 1.02 | 0.51 | 0.12 | -0.03 | 0.91 | 0.44 | 0.95 |
| HR6623 | 5680 | 211 | 0.33 | 0.12 | 0.87 | 0.87 | 0.09 | 0.09 | 1.21 | 0.69 | 1.38 |
| HR995 | 5620 | 143 | 0.22 | 0.08 | 0.80 | 0.61 | 0.23 | 0.03 | 1.09 | 0.48 | 1.14 |
| HR7602 | 5430 | 056 | 0.46 | 0.15 | 0.71 | 0.86 | 0.01 | 0.17 | 1.40 | 0.57 | 1.49 |
| HR7957 | 5240 | 189 | 0.22 | 0.09 | 0.68 | 0.70 | 0.07 | 0.15 | 1.04 | 0.46 | 0.99 |
| HR7957 | 5240 | 192 | 0.09 | 0.18 | 0.56 | 0.52 | -0.01 | 0.09 | 0.75 | 0.40 | 1.17 |
| HR5901 | 5125 | 395 | 0.37 | 0.13 | 0.55 | 0.62 | 0.08 | 0.21 | 1.61 | 0.74 | 1.60 |
| HR5901 | 5125 | 153 | 0.37 | 0.09 | 0.75 | 0.93 | 0.15 | 0.30 | 1.54 | 0.71 | 1.13 |
| HR6014 | 5068 | 072 | 0.31 | -0.12 | 0.39 | 0.59 | 0.14 | 0.05 | 1.10 | 0.70 | 1.40 |
| HR6014 | 5068 | 133 | 0.42 | 0.11 | 0.58 | 0.55 | 0.18 | 0.09 | 1.48 | 0.65 | 1.24 |

| Source | $T_e$ | SNR | Mg5844 | OH5920 | HI5950 | Al5973 | Si5993 | CO6018 | CO6170 | Si6264 | Mg6345 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HR2456 | 38000 | 053 | -0.03 | 0.36 | 0.39 | 0.26 | 0.16 | 0.12 | -0.32 | 0.11 | 0.31 |
| HR2456 | 38000 | 073 | -0.12 | 0.18 | 0.48 | 0.10 | 0.06 | -0.15 | 0.15 | 0.03 | 0.10 |
| HR5191 | 19000 | 282 | -0.05 | 0.19 | 1.71 | 0.57 | 0.08 | -0.07 | 0.22 | 0.07 | 0.24 |
| HR3982 | 13000 | 241 | -0.08 | 0.13 | 2.22 | 0.47 | 0.04 | -0.09 | 0.28 | 0.03 | 0.15 |
| HR3982 | 13000 | 241 | -0.07 | 0.09 | 2.14 | 0.51 | 0.06 | -0.09 | 0.32 | 0.12 | 0.26 |
| HR7001 | 9480 | 678 | -0.05 | 0.36 | 2.83 | 1.06 | 0.03 | -0.03 | 0.41 | 0.15 | 0.52 |
| HR7001 | 9480 | 146 | -0.10 | 0.38 | 2.81 | 1.02 | 0.10 | -0.05 | 0.43 | 0.17 | 0.41 |
| HR2491 | 9145 | 111 | -0.07 | 0.36 | 2.71 | 0.83 | 0.16 | -0.14 | 0.37 | -0.08 | 0.10 |
| HR2491 | 9145 | 148 | -0.14 | 0.40 | 2.67 | 0.93 | 0.12 | -0.13 | 0.39 | 0.05 | 0.20 |
| HR4534 | 8593 | 205 | -0.04 | 0.45 | 2.67 | 1.01 | 0.11 | -0.12 | 0.30 | 0.07 | 0.34 |
| HR4357 | 8377 | 192 | -0.05 | 0.40 | 2.83 | 0.96 | 0.09 | -0.12 | 0.24 | 0.06 | 0.38 |
| HR4931 | 6750 | 119 | 0.04 | 0.24 | 1.47 | 0.62 | -0.01 | -0.06 | 0.09 | 0.09 | 0.86 |
| HR1279 | 6677 | 080 | 0.10 | 0.32 | 1.62 | 0.67 | 0.15 | -0.09 | 0.26 | 0.12 | 0.64 |
| HR2943 | 6530 | 327 | 0.04 | 0.33 | 1.60 | 0.57 | 0.15 | -0.14 | 0.54 | 0.27 | 0.74 |
| HR1538 | 6385 | 281 | 0.06 | 0.34 | 1.26 | 0.53 | 0.18 | -0.11 | 0.51 | 0.22 | 0.90 |
| HR4375 | 6085 | 254 | 0.26 | 0.15 | 0.63 | 0.56 | 0.15 | -0.06 | 0.68 | 0.37 | 1.09 |
| HR4983 | 5930 | 123 | 0.21 | 0.16 | 0.75 | 0.66 | 0.09 | 0.04 | 0.71 | 0.45 | 1.20 |
| HR4983 | 5930 | 173 | 0.19 | 0.21 | 0.90 | 0.52 | 0.19 | -0.06 | 0.87 | 0.47 | 0.96 |
| HR483 | 5855 | 059 | 0.24 | 0.02 | 0.68 | 0.29 | 0.04 | -0.17 | 0.18 | 0.37 | 1.09 |
| HR483 | 5855 | 079 | 0.24 | 0.19 | 0.90 | 0.46 | 0.19 | -0.11 | 0.67 | 0.48 | 1.30 |
| HR4374 | 5830 | 250 | 0.28 | 0.20 | 0.62 | 0.63 | 0.10 | -0.01 | 0.90 | 0.47 | 1.35 |
| HR5072 | 5740 | 197 | 0.26 | 0.15 | 0.74 | 0.53 | 0.16 | -0.04 | 0.99 | 0.53 | 1.28 |
| HR4496 | 5430 | 105 | 0.35 | 0.17 | 0.59 | 0.59 | 0.21 | -0.08 | 1.12 | 0.61 | 1.45 |
| HR4496 | 5430 | 090 | 0.31 | 0.16 | 0.39 | 0.50 | 0.13 | -0.04 | 0.69 | 0.43 | 1.08 |
| HR7462 | 5240 | 131 | 0.52 | 0.04 | 0.38 | 0.72 | 0.09 | 0.09 | 1.20 | 0.62 | 1.89 |
| HR7462 | 5240 | 095 | 0.51 | 0.07 | 0.37 | 0.69 | 0.13 | 0.06 | 1.16 | 0.72 | 2.05 |
| HR1084 | 5010 | 223 | 0.61 | 0.19 | 0.44 | 0.74 | 0.24 | -0.01 | 1.59 | 0.76 | 2.00 |
| HR8832 | 4785 | 111 | 0.88 | 0.14 | 0.29 | 1.06 | 0.17 | 0.18 | 1.88 | 0.90 | 2.50 |
| GL570A | 4560 | 120 | 0.90 | 0.22 | 0.37 | 1.13 | 0.28 | 0.04 | 2.02 | 0.90 | 2.29 |
| HR8085 | 4340 | 125 | 0.65 | 0.18 | 0.01 | 1.15 | 0.11 | 0.15 | 1.59 | 0.60 | 2.38 |
| HR8086 | 4040 | 170 | 0.72 | 0.39 | 0.06 | 1.46 | 0.14 | 0.11 | 1.78 | 0.50 | 2.07 |
| HR8086 | 4040 | 181 | 0.72 | 0.32 | 0.07 | 1.48 | 0.15 | 0.12 | 1.86 | 0.52 | 2.18 |
| GL338A | 3800 | 072 | 0.98 | 0.37 | 0.08 | 1.36 | 0.13 | 0.02 | 1.51 | 0.34 | 1.80 |
| GL526 | 3605 | 068 | 0.62 | 0.42 | -0.13 | 1.32 | 0.16 | 0.10 | 1.04 | 0.04 | 0.92 |
| GL411 | 3530 | 202 | 0.48 | 0.53 | -0.04 | 1.29 | 0.16 | 0.01 | 1.17 | 0.10 | 1.19 |
| GL411 | 3530 | 189 | 0.47 | 0.55 | -0.07 | 1.29 | 0.18 | 0.06 | 1.21 | 0.12 | 1.23 |
| GL725A | 3380 | 083 | 0.52 | 0.57 | -0.10 | 1.15 | 0.06 | 0.03 | 0.93 | -0.00 | 0.99 |
| GL725A | 3380 | 107 | 0.54 | 0.56 | -0.12 | 1.25 | 0.02 | 0.08 | 1.20 | -0.02 | 1.09 |