| Name | $x_0$ | rc | nit | nf | wd | $\log \rho$ | $\|F_0\|$ | $f$ | nmods | $\|E_{\max}\|$ | $\kappa_J$ | $\kappa_P$ | $\lambda_{\min}$ | $\lambda_{\max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HS93 | 0 | ++ | 17 | 17 | 0 | 1 | 1.1e-9 | 135.076 | 0 | 0 | 30 | 1.0e+4 | 0.21 | 1.2e+2 |
| HS95 | 0 | -++ | 26 | 26 | 1 | 2.2 | 8.1e-9 | 0.0156195 | 8 | 1.4e+4 | 2.8e+3 | 1.5e+6 | | |
| HS95 | $\text{feas}_1$ | ++ | 14 | 14 | 0 | 1 | 5.7e-14 | 0.0156195 | 0 | 0 | 1.7e+3 | 1.0e+6 | | |
| HS96[†] | 0 | -++ | 27 | 28 | 2 | 1 | 6.6e-9 | 0.0156195 | 7 | 1.2e+4 | 2.8e+3 | 1.5e+6 | | |
| HS96[†] | $\text{feas}_1$ | ++ | 14 | 14 | 0 | 1 | 5.5e-14 | 0.0156195 | 0 | 0 | 1.7e+3 | 1.0e+6 | | |
| HS97 | 0 | -++ | 31 | 33 | 0 | 1 | 9.7e-12 | 4.07125 | 9 | 1.0e+3 | 1.1e+4 | 6.7e+7 | | |
| HS98 | 0 | -++ | 27 | 27 | 0 | 1 | 6.6e-9 | 3.13581 | 0 | 0 | 4.6e+4 | 4.5e+7 | | |
| HS100 | 0 | ++ | 10 | 13 | 0 | 1 | 2.6e-9 | 680.63 | 0 | 0 | 96 | 2.5e+2 | 4.3 | 47 |
| HS101 | 0 | -- | | | | | | | | | | | | |
| HS101 | $\text{mu}_4$ | -++ | 26 | 26 | 0 | 1 | 1.7e-11 | 1809.76 | 3 | 2.6e+3 | 5.9 | 3.7e+10 | 49 | 6.3e+4 |
| HS102 | 0 | -- | | | | | | | | | | | | |
| HS102 | $\text{mu}_4$ | -++ | 26 | 26 | 0 | 1 | 2.2e-10 | 911.881 | 3 | 1.6e+3 | 42 | 1e+10 | 59 | 2.9e+3 |
| HS103 | 0 | -- | | | | | | | | | | | | |
| HS103 | $\text{mu}_4$ | -++ | 24 | 24 | 0 | 1 | 6.5e-9 | 543.668 | 1 | 3.1e+2 | 53 | 5.1e+9 | 40 | 1.3e+3 |
| HS104 | 0 | -++ | 12 | 12 | 0 | 1 | 1.2e-13 | 3.95116 | 1 | 0.26 | 12 | 6.2e+2 | 0.043 | 1.9 |
| HS105 | 0 | -++ | 19 | 20 | 0 | 1 | 5.3e-13 | 1044.61 | 2 | 1.1 | 1 | 4.2e+5 | 0.051 | 0.95 |
| HS105 | $\text{feas}_1$ | ++ | 25 | 26 | 2 | 1 | 5.3e-9 | 1044.61 | 9 | 1.2 | 1 | 4.2e+5 | 0.051 | 0.95 |
| HS106 | 0 | -++ | 45 | 45 | 0 | 1 | 8.1e-10 | 7049.25 | 16 | 17 | 2.5e+7 | 8.3e+7 | 0.00038 | 0.00081 |
| HS108[‡] | 0 | -++ | 13 | 13 | 0 | 1 | 5.3e-14 | -0.866025 | 3 | 6.1 | 4.3 | 1.1e+15 | -3.1e-15 | 0.87 |
| HS108[‡] | $\text{feas}_1$ | ++ | 14 | 14 | 1 | 1 | 3.6e-14 | -0.866025 | 7 | 2.5e+2 | 3.5 | 1.6e+15 | -2.5e-15 | 0.87 |
| HS109 | 1 | -++ | 32 | 90 | 0 | 1 | 9.2e-10 | 5362.07 | 0 | 0 | 2.5e+6 | 3.7e+8 | 0.0044 | 0.0044 |
| HS111 | 0 | ++ | 13 | 13 | 0 | 1 | 1.5e-10 | -47.7611 | 1 | 10 | 11 | 1.5e+5 | 0.00069 | 0.11 |
| HS113 | 0 | ++ | 13 | 13 | 0 | 1 | 1.9e-13 | 24.3062 | 0 | 0 | 37 | 80 | 2.2 | 7.8 |
| HS114 | 0 | -++ | 15 | 16 | 0 | 1 | 3.4e-9 | -1768.81 | 1 | 0.0023 | 5.8e+2 | 1.1e+9 | 1.4e-5 | 1.4e-5 |
| HS116[§] | 0 | -- | | | | | | | | | | | | |
| HS117 | 0 | ++ | 33 | 33 | 0 | 1 | 5.2e-13 | 32.3487 | 4 | 2.3e+2 | 3.3e+2 | 7.7e+3 | 0.1 | 3.3 |
| HS118 | 0 | -++ | 17 | 17 | 1 | 1 | 6.5e-9 | 664.82 | 0 | 0 | 16 | 4.9e+3 | | |
| COSHFUN | 0 | -++ | 31 | 32 | 0 | 1 | 4.8e-9 | -0.773267 | 11 | 0.8 | 7.2 | 7.8e+6 | 4.8e-7 | 2.4 |
| ORTHREGF | 0 | ++ | 29 | 87 | 1 | 1 | 7.6e-15 | 0.990088 | 14 | 31 | 8.6 | 23 | 0.8 | 2.6 |
| SVANBERG | 0 | ++ | 13 | 13 | 0 | 1 | 1.2e-13 | 15.7315 | 0 | 0 | 26 | 6.6e+2 | 4 | 8.3 |

**Table 1**

| Name | $x_0$ | rc | nit | nf | wd | log $\rho$ | $\|F_0\|$ | $f$ | nmods | $\|E_{\max}\|$ | $\kappa_J$ | $\kappa_P$ | $\lambda_{\min}$ | $\lambda_{\max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HS32 | 0 | ++ | 17 | 17 | 1 | 1 | 2.2e-9 | 1 | 2 | 2.5e+10 | 3.7 | 1.6e+8 | | |
| HS33† | 0 | -++ | 11 | 11 | 0 | 1 | 1.9e-15 | -4.58579 | 1 | 20 | 6.5 | 310 | | |
| HS33† | $\text{feas}_1$ | ++ | 10 | 10 | 0 | 1 | 1.0e-13 | -4.58579 | 2 | 12 | 4 | 24 | | |
| HS34 | 0 | -++ | 30 | 30 | 0 | 1 | 3.1e-13 | -0.834032 | 0 | 0 | 10 | 2.3e+3 | | |
| HS34 | $\text{feas}_1$ | ++ | 13 | 13 | 0 | 1 | 6.3e-14 | -0.834032 | 0 | 0 | 10 | 2.3e+3 | | |
| HS43 | 0 | ++ | 11 | 11 | 0 | 1 | 8.1e-14 | -44 | 0 | 0 | 7.5 | 56 | 8.1 | 9 |
| HS57 | 0 | ++ | 19 | 19 | 0 | 1 | 1.8e-14 | 0.0306476 | 4 | 1.9e-14 | 1 | 3.3e+21 | 0 | 84 |
| HS59 | 0 | -++ | 13 | 13 | 0 | 1 | 3.3e-14 | -6.7495 | 3 | 0.16 | 1 | 5.2e+4 | 0.033 | 0.14 |
| HS59 | $\text{feas}_1$ | ++ | 9 | 9 | 0 | 1 | 1.7e-13 | -7.8028 | 2 | 0.045 | 53 | 1.6e+3 | 0.13 | 0.13 |
| HS59 | $\text{feas}_2$ | ++ | 10 | 10 | 1 | 1 | 1.1e-13 | -6.7495 | 0 | 0 | 1 | 5.2e+4 | 0.033 | 0.14 |
| HS64 | 0 | -- | | | | | | | | | | | | |
| HS64 | $\text{feas}_1$ | ++ | 51 | 51 | 0 | 1 | 2.3e-9 | 6299.84 | 0 | 0 | 1.9e+2 | 5.0e+4 | 0.092 | 0.21 |
| HS64 | $\text{feas}_2$ | ++ | 14 | 14 | 0 | 1 | 5.1e-13 | 6299.84 | 0 | 0 | 1.9e+2 | 5.0e+4 | 0.092 | 0.21 |
| HS65 | 0 | -++ | 10 | 10 | 0 | 1 | 1.2e-13 | 0.953529 | 0 | 0 | 14 | 42 | 1.5 | 4.2 |
| HS65 | $\text{feas}_1$ | ++ | 8 | 8 | 0 | 1 | 2.7e-9 | 0.953529 | 0 | 0 | 14 | 42 | 1.5 | 4.2 |
| HS66 | 0 | -++ | 9 | 9 | 0 | 1 | 2.5e-9 | 0.518163 | 0 | 0 | 3.6 | 1.9e+3 | 0.096 | 0.096 |
| HS66 | $\text{feas}_1$ | ++ | 14 | 14 | 0 | 1 | 3.8e-14 | 0.518163 | 0 | 0 | 3.6 | 1.9e+3 | 0.096 | 0.096 |
| HS67 | 0 | ++ | 13 | 13 | 0 | 1 | 4.0e-10 | -1162.12 | 0 | 0 | 1.2 | 4.6e+5 | 0.39 | 0.39 |
| HS71† | 0 | -++ | 15 | 15 | 0 | 1 | 5.9e-9 | 17.014 | 0 | 0 | 85 | 2.7e+2 | 1.2 | 1.2 |
| HS71† | $\text{feas}_1$ | ++ | 18 | 18 | 0 | 1 | 4.8e-9 | 17.014 | 0 | 0 | 58 | 1.7e+2 | 1.2 | 1.2 |
| HS72 | 0 | -- | | | | | | | | | | | | |
| HS72 | $\text{feas}_1$ | ++ | 11 | 11 | 0 | 1 | 2.1e-13 | 727.679 | 0 | 0 | 3.6e+4 | 1.5e+10 | 0.011 | 0.011 |
| HS73 | 0 | ++ | 11 | 11 | 1 | 1 | 6.9e-9 | 29.8944 | 0 | 0 | 1.2e+2 | 1.3e+3 | | |
| HS83† | 0 | -++ | 16 | 16 | 2 | 1 | 5.5e-9 | -30665.5 | 0 | 0 | 12 | 1.1e+5 | | |
| HS83† | $\text{feas}_1$ | ++ | 12 | 12 | 0 | 1 | 1.8e-9 | -30665.5 | 0 | 0 | 7.4 | 2.3e+3 | | |
| HS84 | 0 | ++ | 25 | 33 | 1 | 1 | 7.7e-9 | -5.28034e+6 | 7 | 4.1e+6 | 5.0e+5 | 2.0e+7 | | |
| HS85‡ | 0 | ++ | 14 | 14 | 0 | 1 | 7.9e-9 | -2.2156 | 0 | 0 | 7.1e+17 | 2.3e+13 | -2.8e-6 | -6.7e-10 |
| HS88§ | 0 | -- | | | | | | | | | | | | |