

Table 10. HD 11964 (WITH GENERAL RELATIVITY)

i_{rel}	aligned	antialigned	other	RMS $\Delta\varpi'$
0°	68.6% (68.4%) [59.8%]	26.8% (30.8%) [6.2%]	4.6% (0.8%) [34.0%]	$91.4^\circ \pm 5.0^\circ$ ($95.7^\circ \pm 4.9^\circ$) [$95.2^\circ \pm 5.5^\circ$]
$0^\circ - 15^\circ$	65.8% (66.8%) [60.6%]	31.0% (32.4%) [8.8%]	3.2% (0.8%) [30.6%]	$91.8^\circ \pm 4.3^\circ$ ($94.9^\circ \pm 4.9^\circ$) [$96.3^\circ \pm 5.4^\circ$]
$15^\circ - 30^\circ$	60.6% (66.2%) [54.4%]	34.4% (32.6%) [10.2%]	5.0% (1.2%) [35.4%]	$91.3^\circ \pm 6.5^\circ$ ($93.8^\circ \pm 4.4^\circ$) [$96.6^\circ \pm 7.1^\circ$]
$30^\circ - 45^\circ$	39.6% (57.0%) [41.2%]	21.6% (39.0%) [13.2%]	38.8% (4.0%) [45.6%]	$63.6^\circ \pm 25.4^\circ$ ($91.5^\circ \pm 8.9^\circ$) [$70.9^\circ \pm 24.2^\circ$]
$45^\circ - 60^\circ$	37.6% (51.2%) [19.0%]	30.4% (30.4%) [6.6%]	32.0% (18.4%) [74.4%]	$64.3^\circ \pm 25.0^\circ$ ($78.8^\circ \pm 20.2^\circ$) [$65.4^\circ \pm 26.7^\circ$]
$60^\circ - 75^\circ$	50.0% (54.2%) [15.6%]	34.0% (35.4%) [9.0%]	16.0% (10.4%) [75.4%]	$74.4^\circ \pm 21.5^\circ$ ($80.3^\circ \pm 16.6^\circ$) [$66.7^\circ \pm 26.4^\circ$]
$75^\circ - 90^\circ$	50.0% (54.7%) [36.4%]	27.3% (41.7%) [13.6%]	22.7% (3.6%) [50.0%]	$81.2^\circ \pm 12.6^\circ$ ($84.0^\circ \pm 11.4^\circ$) [$75.7^\circ \pm 19.9^\circ$]
$90^\circ - 105^\circ$	60.9% (40.7%) [13.0%]	21.7% (55.9%) [21.7%]	17.4% (3.4%) [65.2%]	$75.4^\circ \pm 20.2^\circ$ ($83.7^\circ \pm 11.8^\circ$) [$70.0^\circ \pm 22.2^\circ$]
$105^\circ - 120^\circ$	42.3% (40.0%) [17.3%]	37.8% (47.4%) [8.4%]	19.9% (12.7%) [74.3%]	$75.1^\circ \pm 21.5^\circ$ ($78.5^\circ \pm 17.1^\circ$) [$69.8^\circ \pm 25.8^\circ$]
$120^\circ - 135^\circ$	31.3% (35.0%) [19.2%]	34.9% (44.6%) [8.0%]	33.7% (20.4%) [72.7%]	$62.7^\circ \pm 27.4^\circ$ ($77.7^\circ \pm 21.7^\circ$) [$64.9^\circ \pm 26.9^\circ$]
$135^\circ - 150^\circ$	34.2% (55.0%) [34.0%]	25.4% (39.8%) [15.2%]	40.4% (5.2%) [50.8%]	$64.6^\circ \pm 25.4^\circ$ ($91.1^\circ \pm 9.8^\circ$) [$69.9^\circ \pm 24.6^\circ$]
$150^\circ - 165^\circ$	60.8% (61.4%) [48.6%]	32.8% (36.6%) [12.6%]	6.4% (2.0%) [38.8%]	$92.4^\circ \pm 5.8^\circ$ ($94.4^\circ \pm 4.4^\circ$) [$95.8^\circ \pm 7.8^\circ$]
$165^\circ - 180^\circ$	57.0% (78.8%) [52.0%]	34.6% (20.6%) [11.2%]	8.4% (0.6%) [36.8%]	$93.0^\circ \pm 5.6^\circ$ ($95.0^\circ \pm 4.8^\circ$) [$96.5^\circ \pm 7.1^\circ$]

Note. — Summary of libration of $\Delta\varpi'$ about aligned configurations (Column 2), antialigned configurations (Column 3) and asymmetric configurations (Column 4) arranged by bins of relative inclination (Column 1) for HD 11964. Column 5 displays the root mean squared (RMS) libration and its standard deviation across different initial conditions about the most prevalent libration center. Values in parenthesis are computed when GR is included in the simulations, and values in square brackets refer to the libration of ω_{in} measured with respect to the invariable plane.

Table 11. HD 38529 (WITH GENERAL RELATIVITY)

i_{rel}	aligned	antialigned	other	RMS $\Delta\varpi'$
$0^\circ - 0^\circ$	95.2% (95.0%) [84.6%]	4.8% (5.0%) [0.6%]	0.0% (0.0%) [14.8%]	$96.1^\circ \pm 3.6^\circ$ ($97.0^\circ \pm 3.8^\circ$) [$99.6^\circ \pm 10.6^\circ$]
$0^\circ - 15^\circ$	96.0% (95.8%) [84.0%]	4.0% (4.2%) [1.8%]	0.0% (0.0%) [14.2%]	$95.5^\circ \pm 3.0^\circ$ ($96.2^\circ \pm 3.1^\circ$) [$104.2^\circ \pm 1.3^\circ$]
$15^\circ - 30^\circ$	85.6% (89.3%) [83.0%]	14.4% (10.7%) [1.2%]	0.0% (0.0%) [15.8%]	$95.5^\circ \pm 3.2^\circ$ ($96.1^\circ \pm 3.1^\circ$) [$103.8^\circ \pm 1.4^\circ$]
$30^\circ - 45^\circ$	55.9% (62.3%) [58.6%]	34.8% (37.7%) [9.0%]	9.3% (0.0%) [32.4%]	$86.6^\circ \pm 16.1^\circ$ ($94.5^\circ \pm 3.6^\circ$) [$92.0^\circ \pm 21.3^\circ$]
$45^\circ - 60^\circ$	55.7% (59.9%) [21.6%]	37.1% (40.1%) [13.7%]	7.2% (0.0%) [64.6%]	$79.2^\circ \pm 15.3^\circ$ ($89.8^\circ \pm 7.1^\circ$) [$75.9^\circ \pm 28.2^\circ$]
$60^\circ - 75^\circ$	56.9% (71.2%) [14.3%]	43.1% (28.8%) [12.3%]	0.0% (0.0%) [73.4%]	$82.6^\circ \pm 9.2^\circ$ ($86.7^\circ \pm 8.1^\circ$) [$75.3^\circ \pm 26.8^\circ$]
$75^\circ - 90^\circ$
$90^\circ - 105^\circ$
$105^\circ - 120^\circ$	47.0% (67.5%) [11.7%]	53.0% (32.2%) [11.7%]	0.0% (0.26%) [76.7%]	$81.0^\circ \pm 8.9^\circ$ ($85.9^\circ \pm 9.5^\circ$) [$69.3^\circ \pm 26.1^\circ$]
$120^\circ - 135^\circ$	48.0% (66.1%) [25.6%]	44.9% (33.9%) [12.4%]	7.1% (0.0%) [62.0%]	$79.6^\circ \pm 15.6^\circ$ ($90.0^\circ \pm 6.3^\circ$) [$76.1^\circ \pm 28.2^\circ$]
$135^\circ - 150^\circ$	66.6% (75.6%) [62.8%]	24.4% (24.4%) [11.2%]	9.0% (0.0%) [26.0%]	$86.2^\circ \pm 16.0^\circ$ ($94.4^\circ \pm 3.5^\circ$) [$91.7^\circ \pm 20.1^\circ$]
$150^\circ - 165^\circ$	94.0% (91.0%) [90.6%]	6.0% (9.0%) [0.6%]	0.0% (0.0%) [8.8%]	$94.4^\circ \pm 2.5^\circ$ ($95.4^\circ \pm 2.9^\circ$) [$102.2^\circ \pm 2.3^\circ$]
$165^\circ - 180^\circ$	98.6% (96.8%) [91.4%]	1.41% (3.2%) [0.0%]	0.0% (0.0%) [8.6%]	$95.2^\circ \pm 2.6^\circ$ ($96.1^\circ \pm 3.0^\circ$) [$102.4^\circ \pm 1.7^\circ$]

Note. — Same as Table 10 but for HD 38529.