

Supplementary table S1 to Maffei, Jackson and Livermore: *Characterisation of columnar inertial modes in rapidly rotating spheres and spheroids*

$m \backslash N$	1	3	10	15
1	-3.53702 - 0.10895 i	-5.45576 - 0.02399 i	-9.71143 - 0.00315 i	-11.9092 - 0.00150368i
2	-4.20426 - 0.18924 i	-5.91225 - 0.04391 i	-9.96949 - 0.00612 i	-12.1194 - 0.00295873i
4	-5.50916 - 0.36434 i	-6.83322 - 0.08733 i	-10.49769 - 0.01263 i	-12.5489 - 0.00615215i
6	-6.78673 - 0.57085 i	-7.75334 - 0.14233 i	-11.03660 - 0.02091 i	-12.9875 - 0.010193i
10	-9.29803 - 1.04964 i	-9.57790 - 0.29076 i	-12.13178 - 0.04505 i	-13.8824 - 0.0220791i
15	-12.39188 - 1.70177 i	-11.82912 - 0.53809 i	-13.51498 - 0.09119 i	-15.0206 - 0.0455134i
20	-15.4475 - 2.3571 i	-14.05451 - 0.83650 i	-14.9024 - 0.1551 i	-16.1695 - 0.079145i

**Table S1:** Some values of the frequency correction  $G$  in the no-slip case calculated for different values of  $N$  and  $m$  for the columnar inertial modes for  $b = 1$ .