Table 6. Solutions for the mass of (11) Parthenope and the orbital elements of (17) Thetis calculated using different values for the mass of (4) Vesta; "σ" is the standard deviation of the residuals calculated with each solution; the central value of the mass of Vesta ($1.35\ 10^{-10}\ M_0$) is the value used to calculate the solution given in Table 4

| Mass of Vesta ($10^{-10}\ M_0$) | Mass obtained for Parthenope ($10^{-12}\ M_0$) | Difference with the orbital elements of Thetis given in Table 4 | | | | | | σ (") residuals |
|---|---|---|---|---|---|---|---|---|
| | | Δa ($10^{-9}$ AU) | Δe ($10^{-8}$) | Δi ($10^{-6}$ °) | Δ Ω ($10^{-6}$ °) | Δ ω ($10^{-6}$ °) | ΔM ($10^{-6}$ °) | |
| 1.2 | 2.57 | 2 | 0 | 0 | 1 | 0 | -1 | 0.85 |
| 1.3 | 2.58 | 1 | 0 | 0 | 1 | 0 | 0 | 0.85 |
| 1.35 | 2.58 | | | | | | | 0.85 |
| 1.4 | 2.59 | -1 | 0 | 0 | 1 | 0 | 0 | 0.85 |
| 1.5 | 2.60 | -2 | 0 | 0 | 1 | 0 | 0 | 0.85 |