## ASTR 400B HW7 Analysis and Answers

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23/03/23

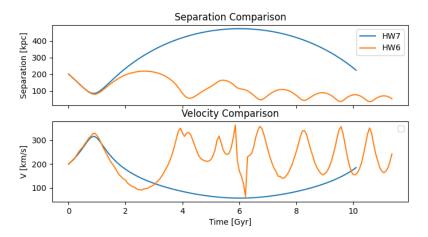


Figure 1: M31 Orbit HW7 vs HW6

- 1. The plots are very different. While one seems to show many close encounters, the other only shows one close encounter, and then the two galaxies move away on a long arc before coming back together.
- 2. The dynamical friction from the Dark Matter Halo seems unaccounted for. Could it be the reason we don't see a more dramatic interaction at the start?
- 3. We could include the MW by creating a similar class for MW's effect on M31, and simply incorporating it into the calculation. Though, this seems like a naive approach, as it does not consider M33's effect on the MW.