

ASTR 400B Research Assignment 1

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1 Stellar Streams of M33 (during and after the MW-M31 Merger)

Questions:

- 1) M33 stream dynamics and velocity gradients. Velocity dispersion and how they change in the combined MW and M31 potential.
- 2) How well do M33's streams trace the orbit of M33? How does this behavior evolve and why does this happen?
- 3) How and when do M33's streams form?