

# ASTR400B Research Assignment 1

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1) For the research project I am most interested in looking at the evolution of the merger so I would like to select the "Galaxy Merger Sequence of MW and/or M31: stellar evolution through close encounters" (5).

2) The specific research question I will study is "how does the velocity dispersion of each galaxy evolve (bulge/disk) throughout the interaction ? "

However if too many people select that topic I would also be interested in "how does the "observed" and mass-derived rotation curve of each galaxy evolve (disk + bulge) ? ("observed" meaning plot the simulated disk particle line of sight velocity field edge on). "