My Research Assignment

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1 MW/M31 Halo Merger Remnant: Dark Matter Halo Evolution

I want to look into simulate what would happen to the DM halo of the remnant after the galaxies have merged. I will be looking into the kinematic evolution of this halo, such as rotation, dispersion profile, and angular momentum. I will also look at the density profile evolution, since both galaxies will add some of their material to the remnant and eject a lot of it out into space, both of which will dramatically change the density.