

1)

It appears that the Milky Way and M31 will experience 3 close encounters in the future.

2)

As the two galaxies get closer together, their relative center of mass velocities get increase, and as they get further away, their relative velocities decrease. The peaks of the velocity vs time plots show when the galaxies are closest together, while the dips show when the galaxies are furthest apart.

3)

M31 and the Milky Way seem to merge at about 6.4~6.5 Gyr. The time interval between M33's closest approaches to M31 decreases whenever the Milky Way and M31 merge.