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Reconstructing Cluster Merger Histories using Triple Merger Simulations

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We present a suite of 13 triple merger simulations using the FLASH hydrodynamic + N-body code which we use to derive a means of distinguishing a multi-merger system from a simple binary merger system using sloshing cold fronts. Our simulations explore different trajectories of a 1:10:10 triple merger. In particular we focus on the growth rate of sloshing cold fronts and the potential impact multi-mergers have on this. We see that the growth of sloshing cold fronts is more complicated than previously thought.

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