The Beginning and Ends of Double White Dwarfs



Contribution ID: 2 Type: Talk

Three-dimensional simulaitons of double detonations in the double-degenerate models for type la supernovae

Thursday, 4 July 2019 10:05 (20 minutes)

The discovery of hypervelocity white dwarfs strongly supports the Dynamical-Driven Double-Degenerate Double-Detonation (D^6) model for type Ia supernova scenario. We have performed high-resolution SPH simulations of D^6 explosions in various double-degenerate systems. We have found several explosion modes. In this presentation, we will show observational features of these explosion modes.

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Session Classification: Supernovae & their Aftermath