APR18-2018-000538

Abstract for an Invited Paper
for the APR18 Meeting of
the American Physical Society

Rethinking the Fundamentals of Classical Nova Explosions[1]

LAURA CHOMIUK, Michigan State University

Over the past few years, a revolution has been taking place in our understanding of classical novae, largely driven by the discovery of GeV gamma-rays emanating from these garden-variety explosions. These gamma-rays hint that shocks are energetically important—perhaps even dominant—in novae. I will present our burgeoning understanding of shocks in novae, from both multi-wavelength observational and theoretical perspectives. I will also show that novae can be used as testbeds to understand other shock-powered explosions, like stellar mergers and super-luminous supernovae.

[1]NSF