



复旦大学物理系物质科学报告

Physics Department Colloquium

Magnetar-Powered Transients

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In this talk, I will review recent studies on magnetar-powered transients. These phenomena include gamma-ray burst afterglows and superluminous supernovae. For short gamma-ray bursts, I will discuss implications of magnetars left behind by the merger of two neutron stars. This central engine would be testable with future observations of gravitational waves and polarization of multi-waveband electromagnetic emission. I will also discuss some energy source models for superluminous supernovae, and in particular, I will show that ASASSN-15lh-like superluminous supernovae provide a signature for the birth of strange quark stars.

Time: 2:00pm, Tuesday, 2016.03.01

Location: Physics Building, Room 221B

(Cookies and coffee are served from 1:30 pm)