

# Theory Seminar

Monday, March 29, 2010 2:10 PM 831 Pupin Hall

## Precision Gravity and Effective Field Theories

The effective field theory description yields a systematic treatment of Gravitational bound states such as binary systems. Gravitational waves emitted from binaries are one of the prime event candidates at direct detection experiments such as LIGO, VIRGO etc. Due to the multiple scales involved in the binary problem, an effective field theory treatment yields many advantages in perturbative calculations. My talk will review the setup of the effective field theory framework and report on recent progress in gravitational wave phenomenology.

Andreas Ross, Yale University

