Exotic Explosions and Eruptions: Exploring a New Transient Phase-Space with Pan-STARRS

Edo Berger (eberger@cfa.harvard.edu; P-321)

Figure 1: Phase-space for optical transients: common, rare, and hypothetical.
Pan-STARRS by the numbers:
• 1.8 m; 7 deg$^2$; 1 billion pixels
• MDS: 70 deg$^2$; observed every night
• $3\pi$: observed $\sim$10x per year

**Figure 2:** Optical spectra of high and intermediate luminosity transients

**Figure 3:** Progenitors of intermediate luminosity transients
A caput Cassiopea
B pedisus Scheidir
C Cingulum
D flexura ad Iuxa
E Genus
F Pes
G suprema Casbedra
H media Chatedra
I Nova Stella.