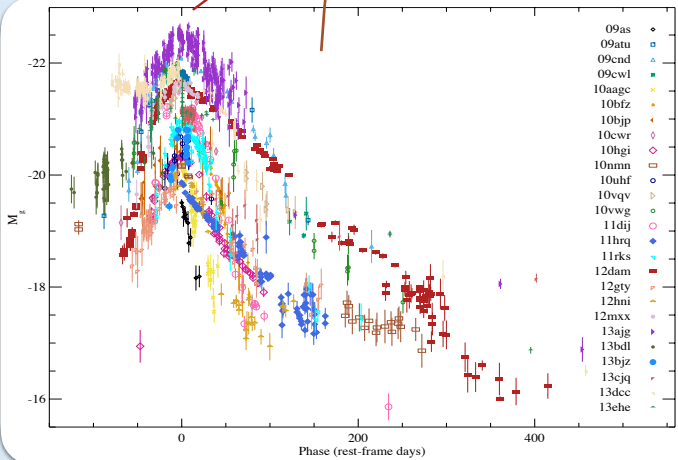
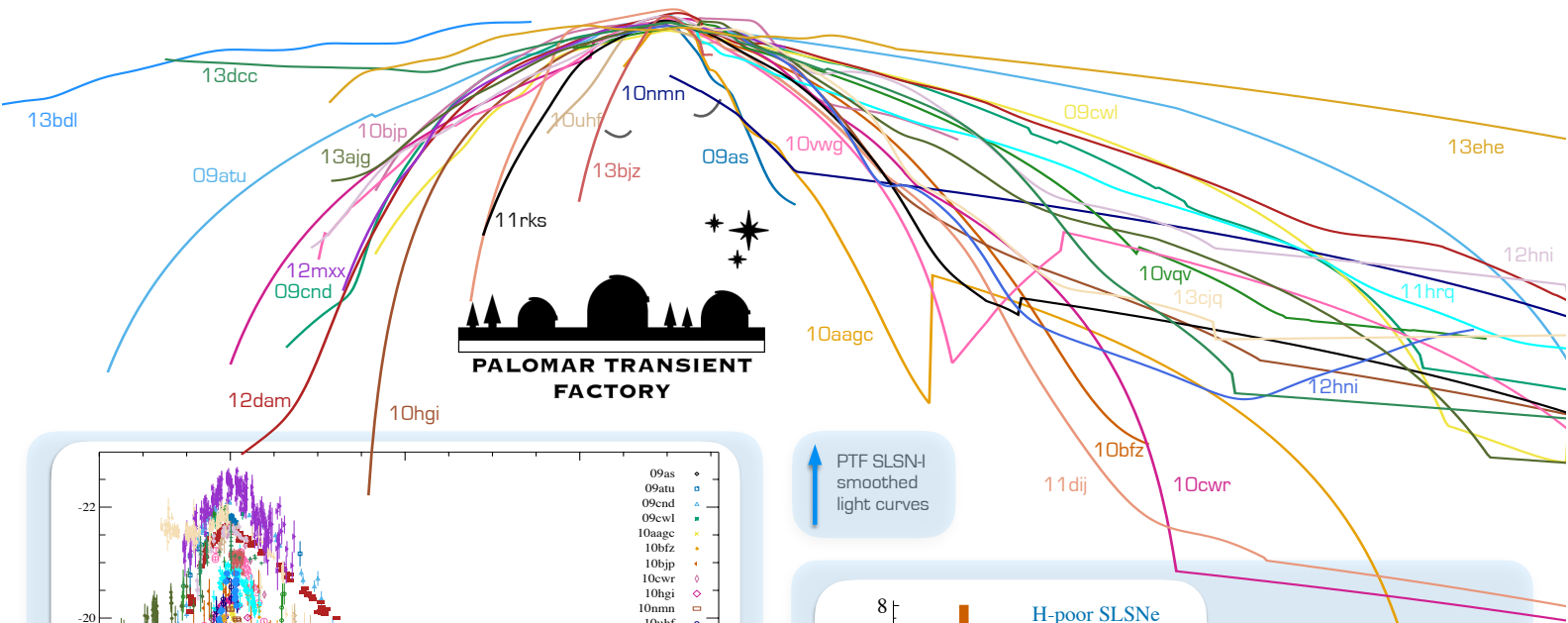
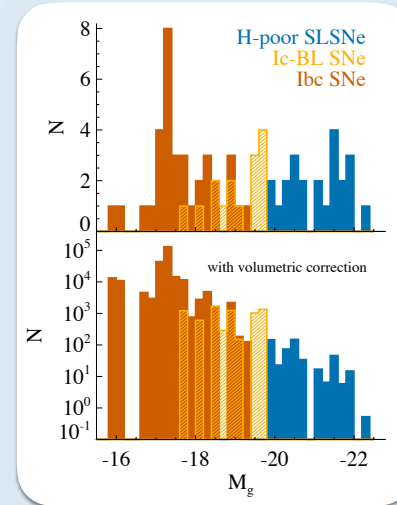


Annalisa De Cia (ESO, Weizmann),
 Avishay Gal-Yam, Paul Vreeswijk,
 Giorgos Leloudas (Weizmann),
 Robert Quimby (S. Diego),
 Dan Perley (DARK) et al.

H-poor Superluminous Supernovae (SLSN-I) in the Palomar Transient Factory (PTF): the light-curve properties



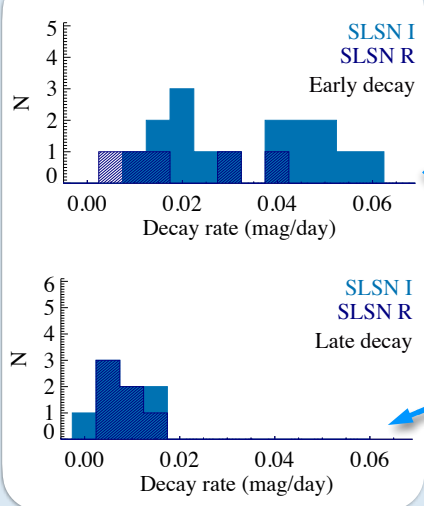
PTF SLSN-I
 smoothed
 light curves



PEAK MAGNITUDES

$M \lesssim -20$

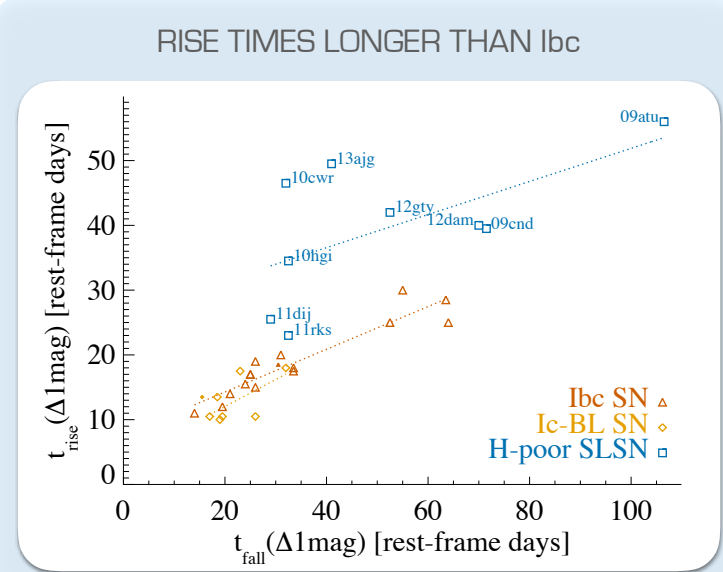
including k-correction
 volumetric correction



DECAY RATES
 SLOW DOWN

Nickel tails?

Early: up to ~ 100 d post-peak. Late: after ~ 100 d post-peak



RISE TIMES LONGER THAN Ibc

+ peaks are not powered by nickel
 + early- and late-time bumps are common

+ more to come... stay tuned!

