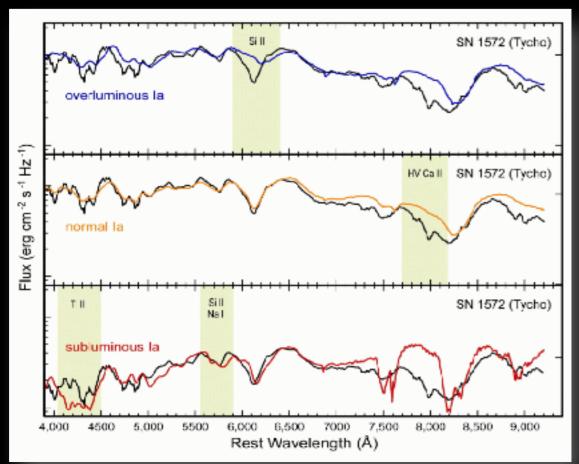
why study light echoes?

LEs give us the chance to take spectra of events occurred before spectra were invented and classify ancient astronomical transients

Tycho SN (1572)



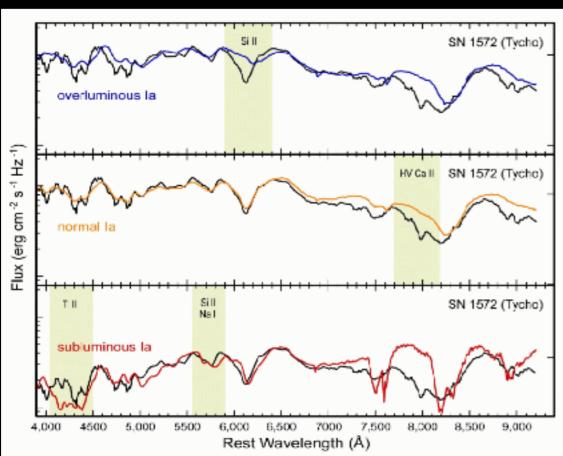
Rest+ 2011

light echoes of N-Carinae

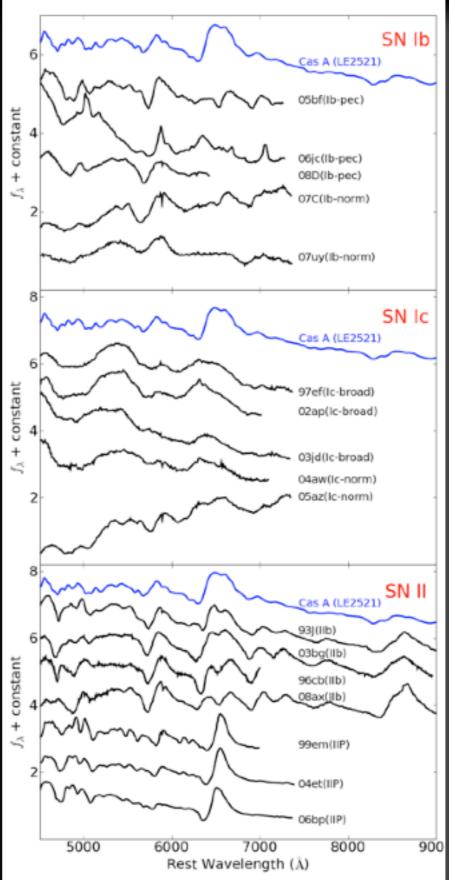
why study light echoes?

LEs give us the chance to take spectra of events occurred before spectra were invented and classify ancient astronomical transients

Tycho SN (1572)



Cas A (1680)



Rest+ 2011

Krause+ 2008

light echoes of N-Carinae