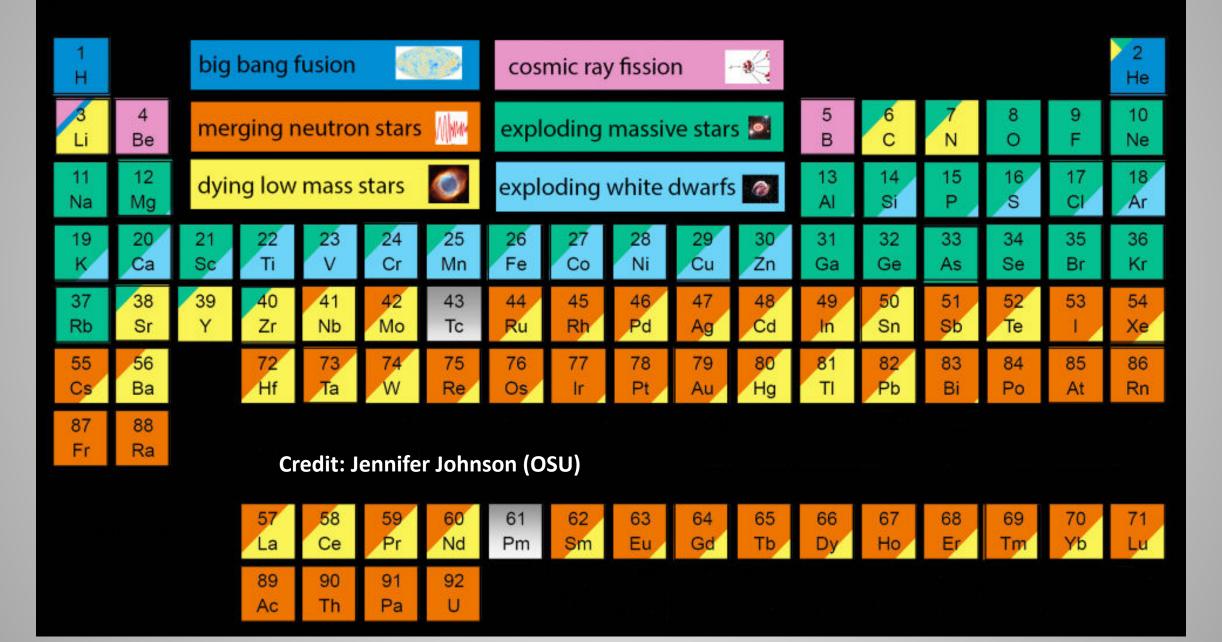
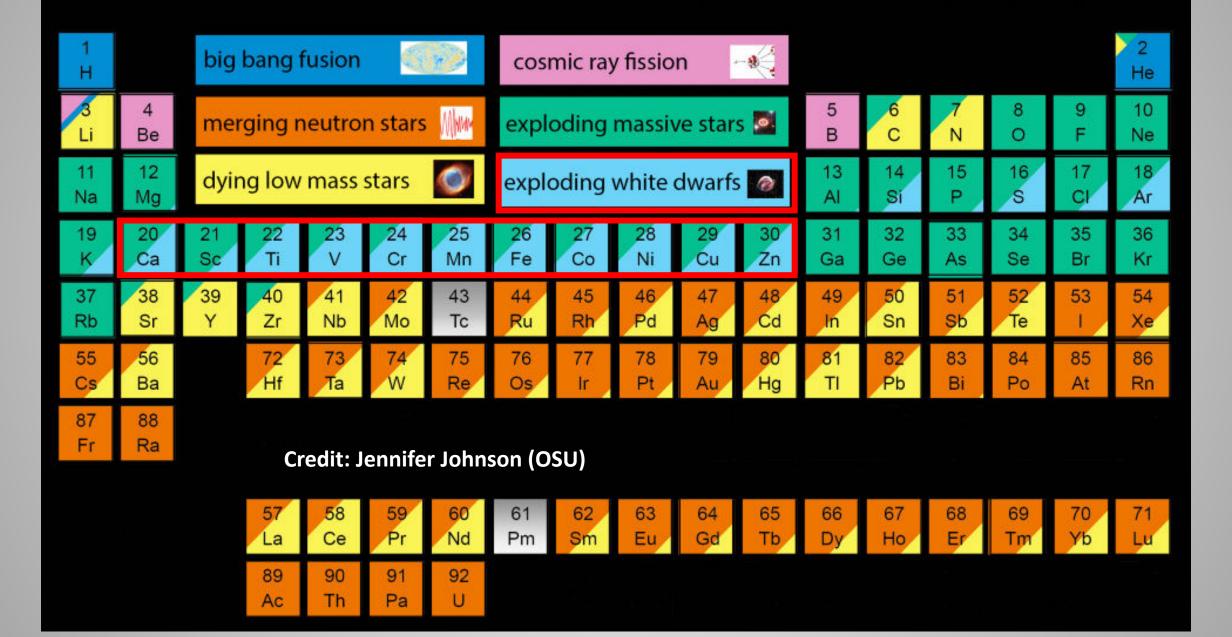
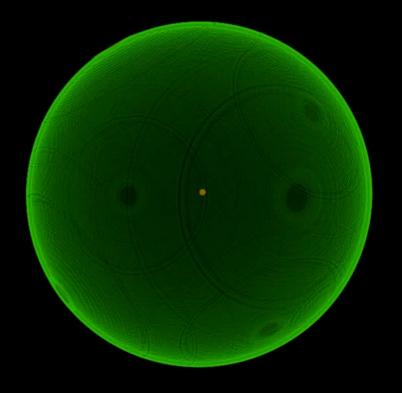


The Origin of the Solar System Elements



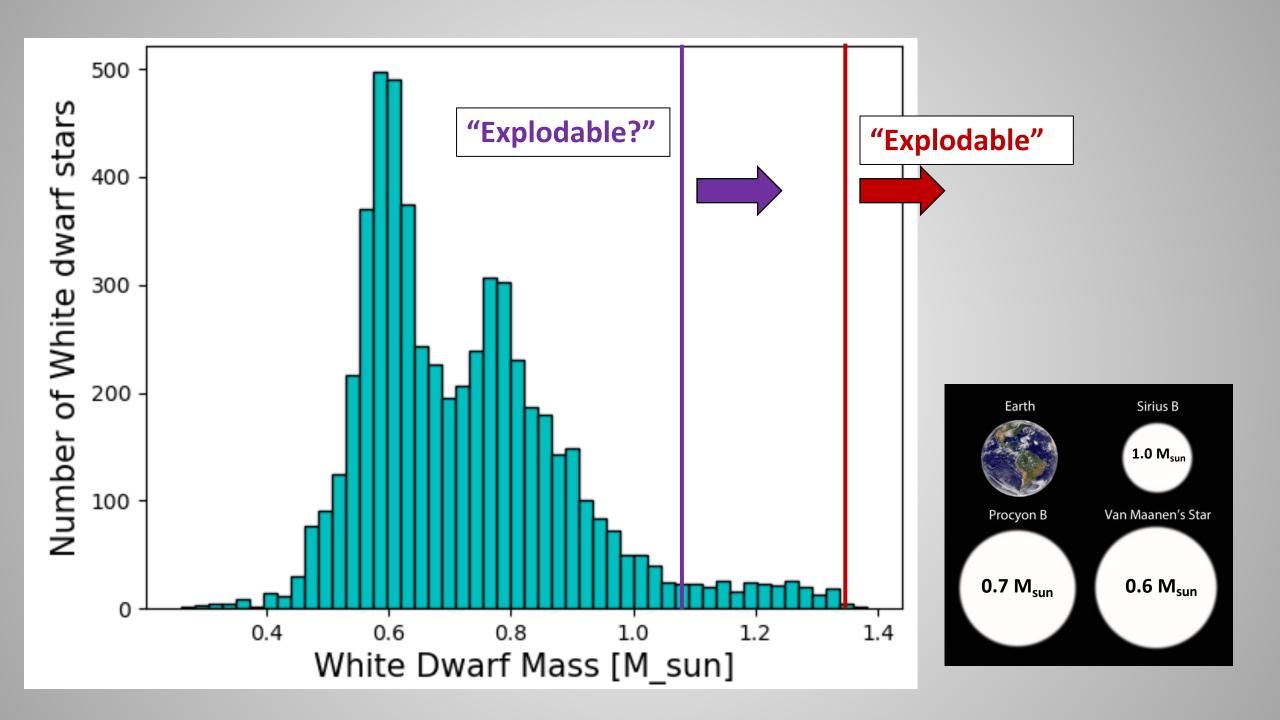
The Origin of the Solar System Elements

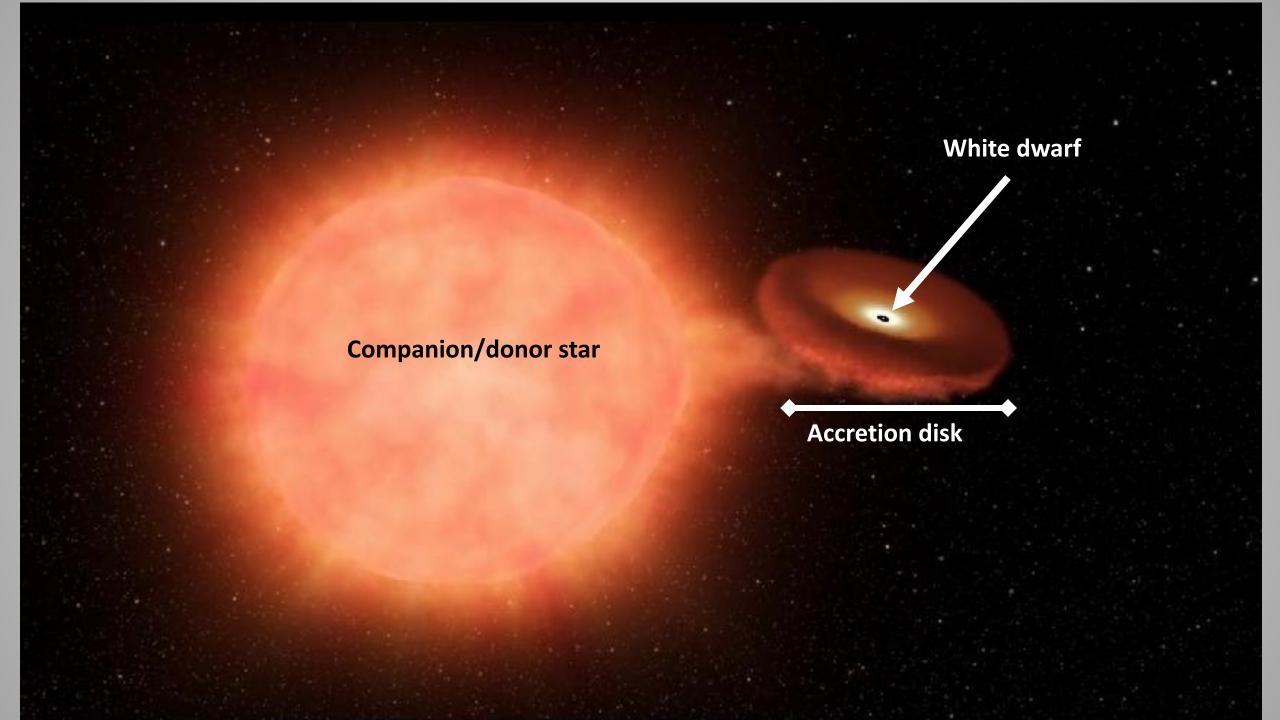


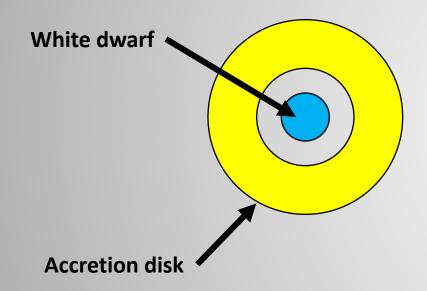


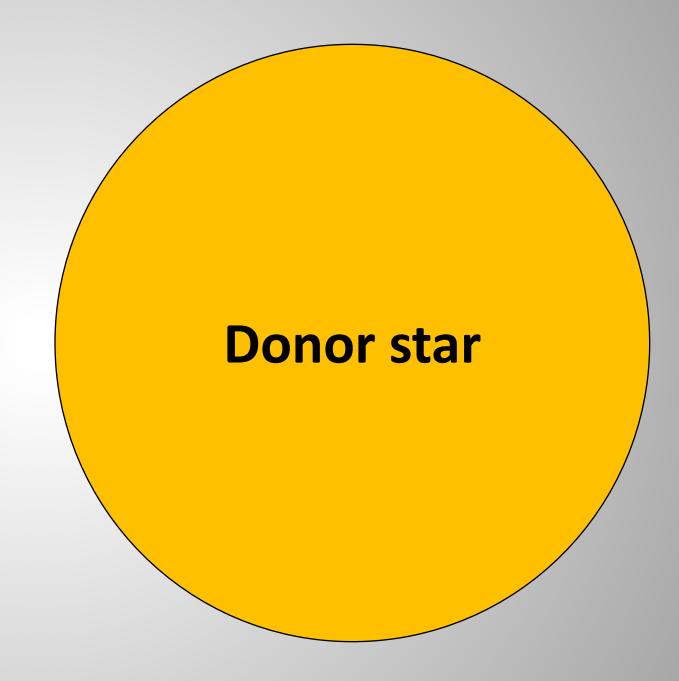
Need 10⁹ g/cc to ignite carbon fusion (about 36 million pounds per cubic inch)

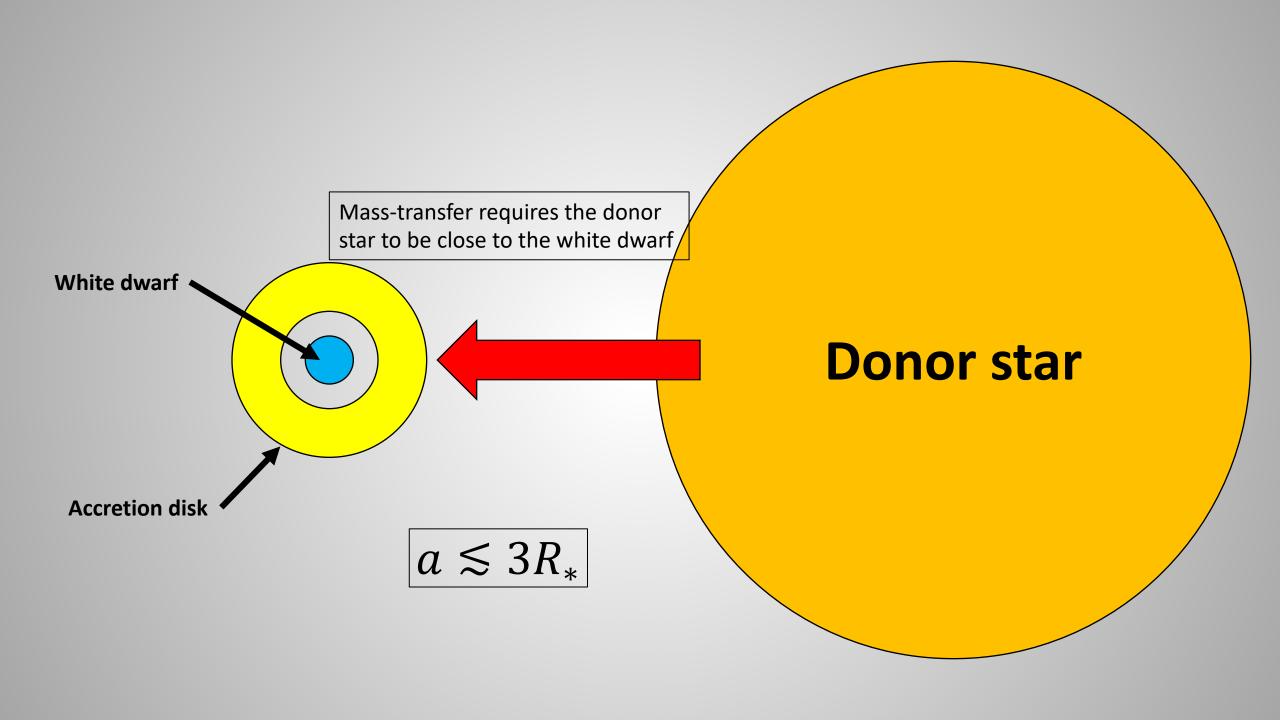
Credit: U Chicago FLASH
Computing Center



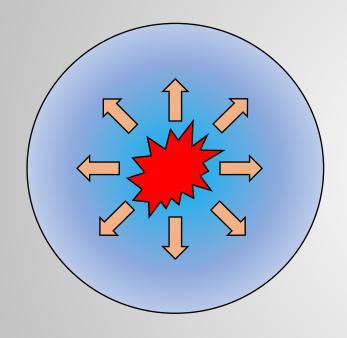


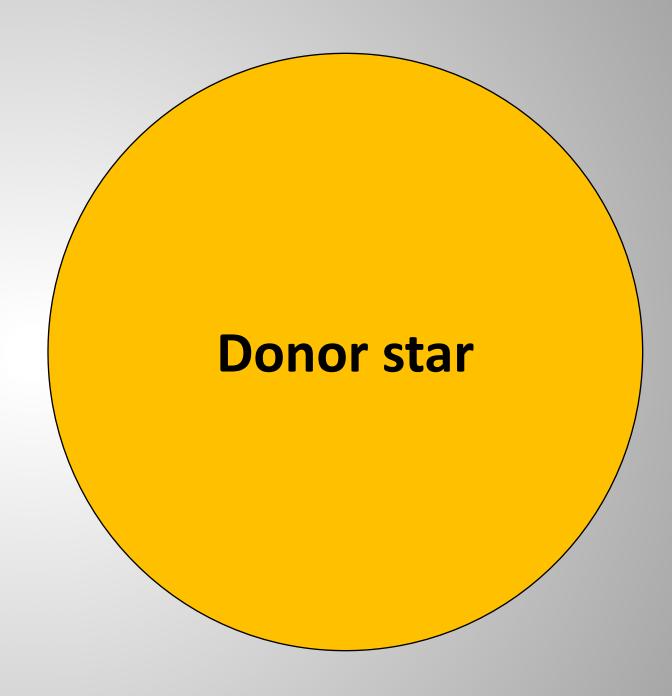


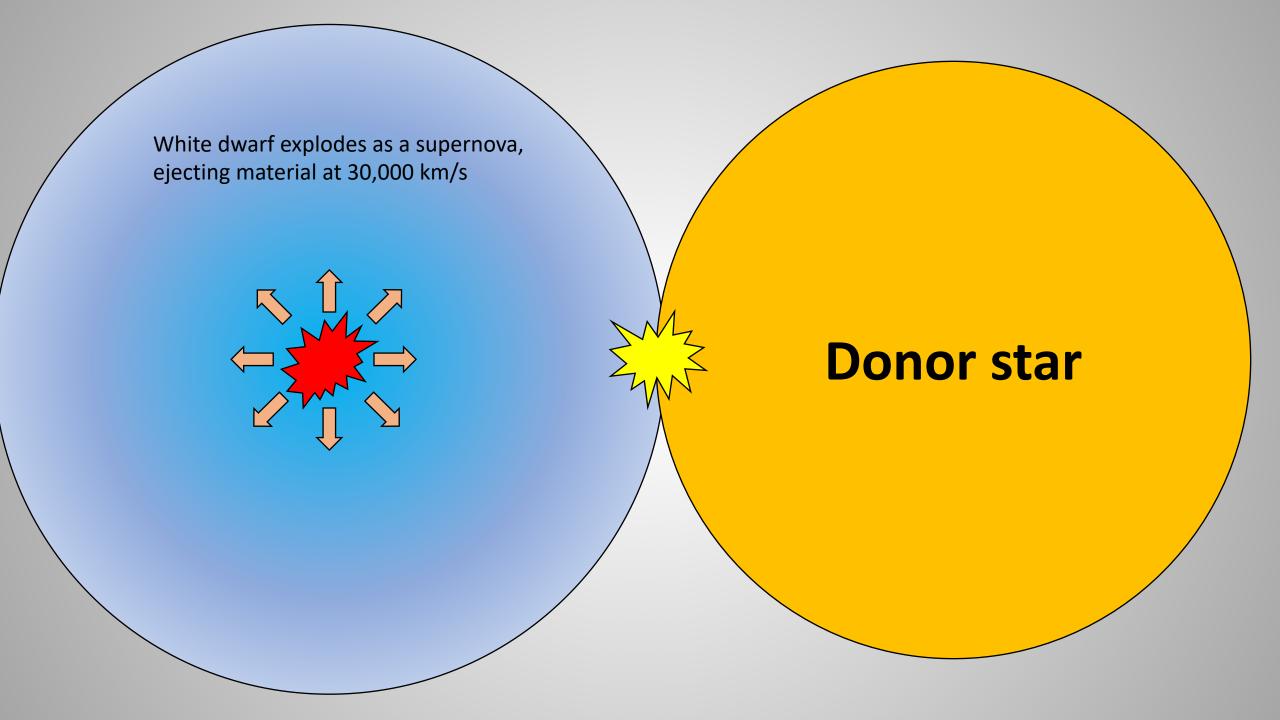


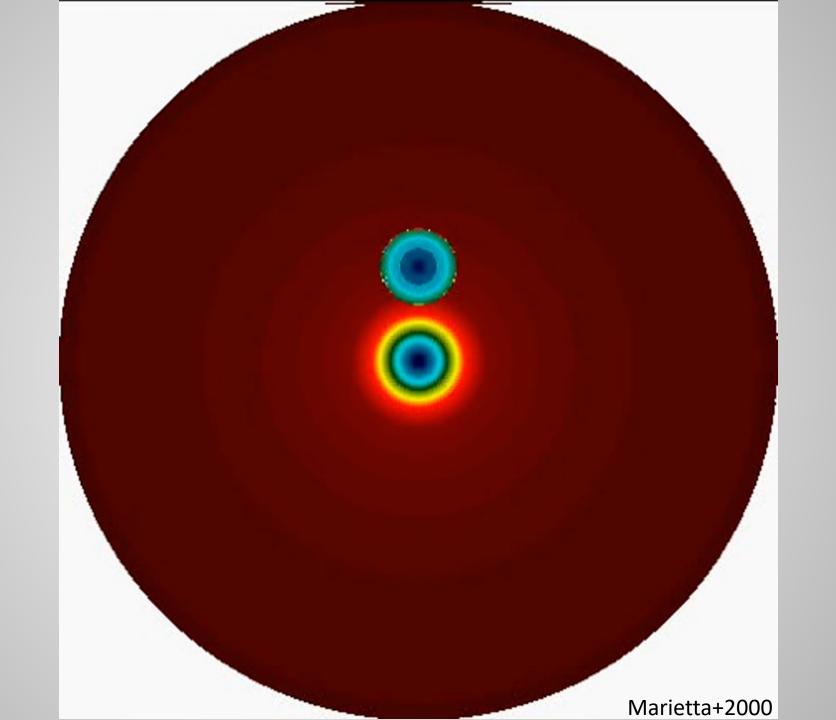


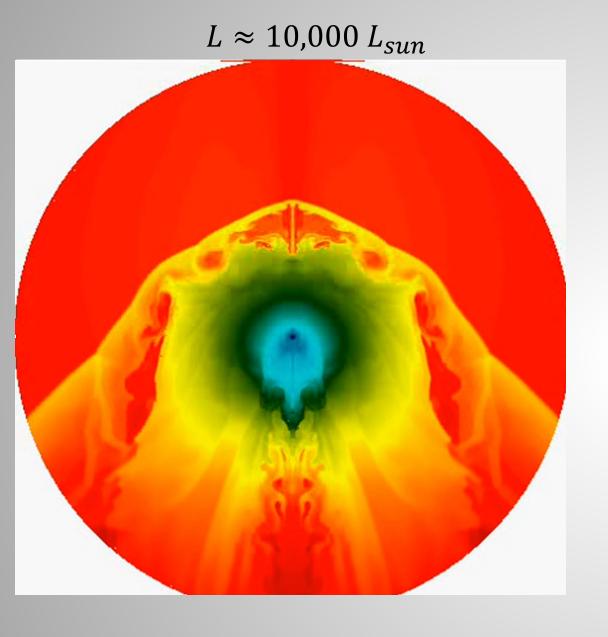
White dwarf explodes as a supernova, ejecting material at 30,000 km/s

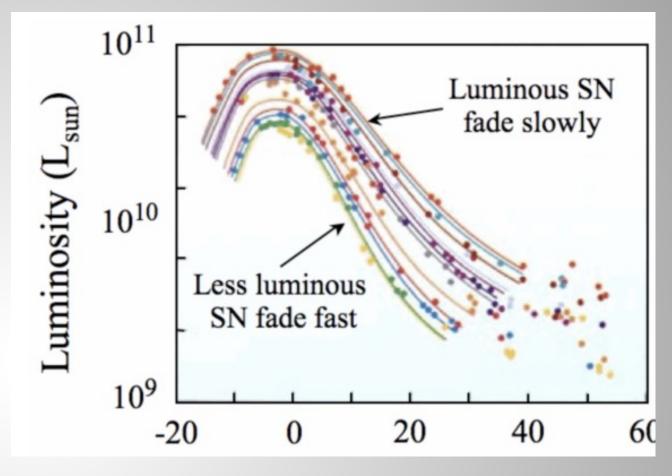




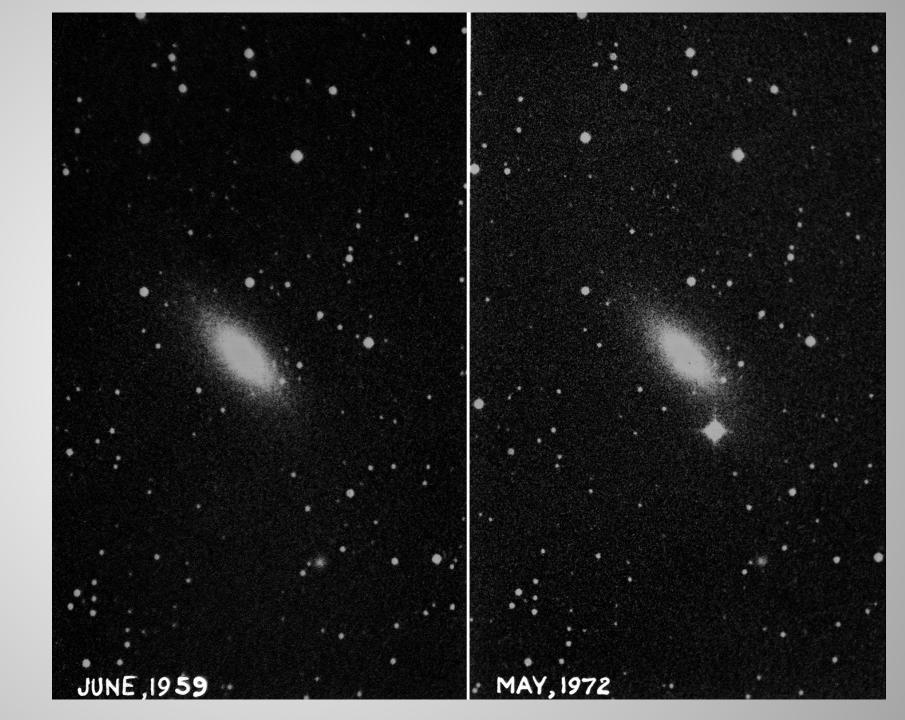


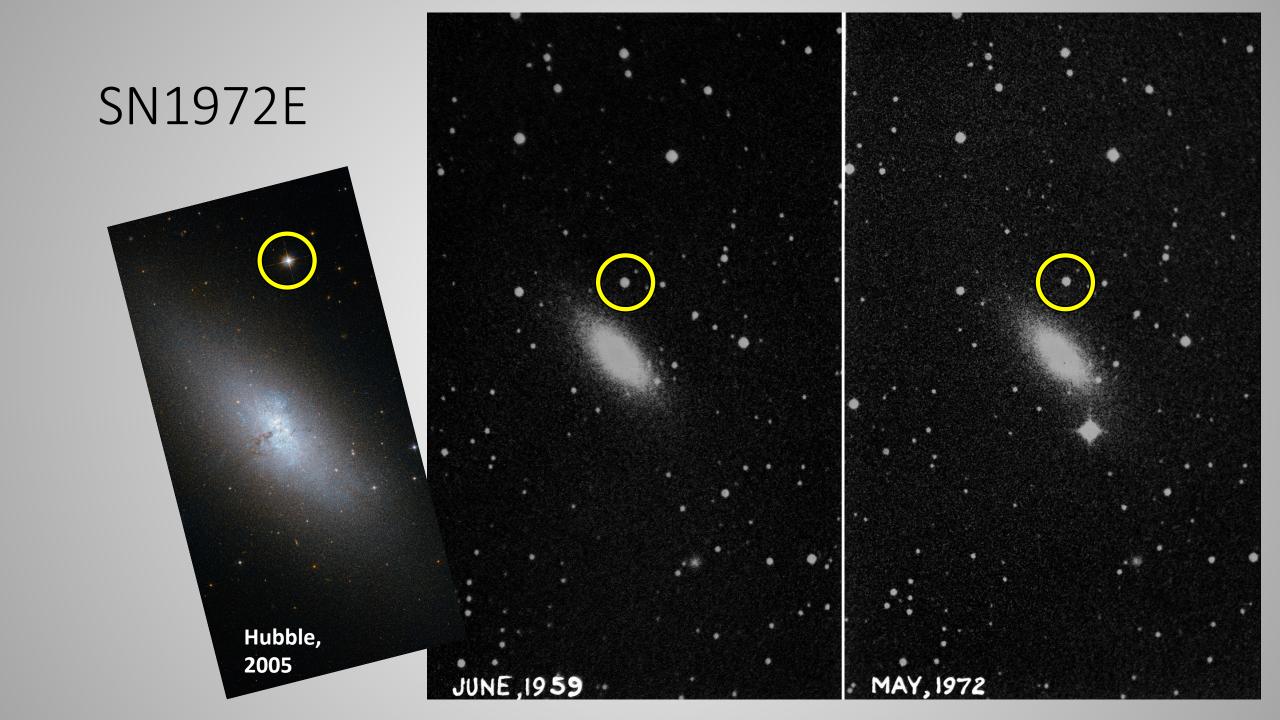


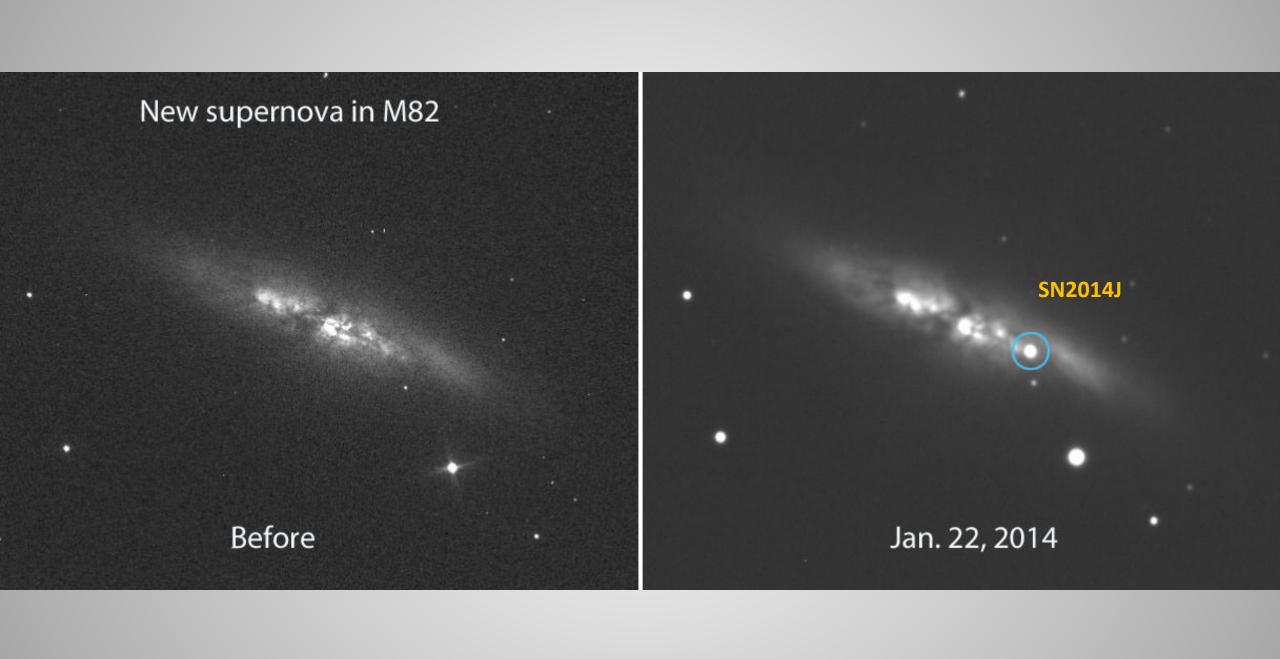


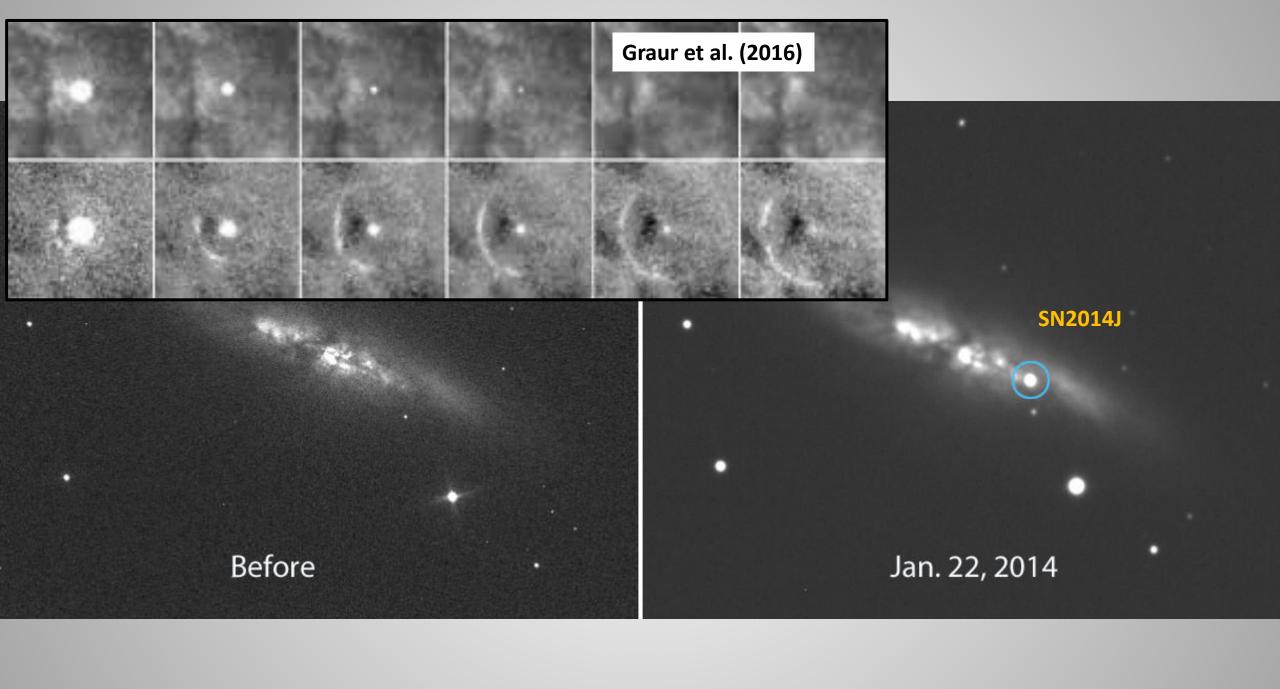


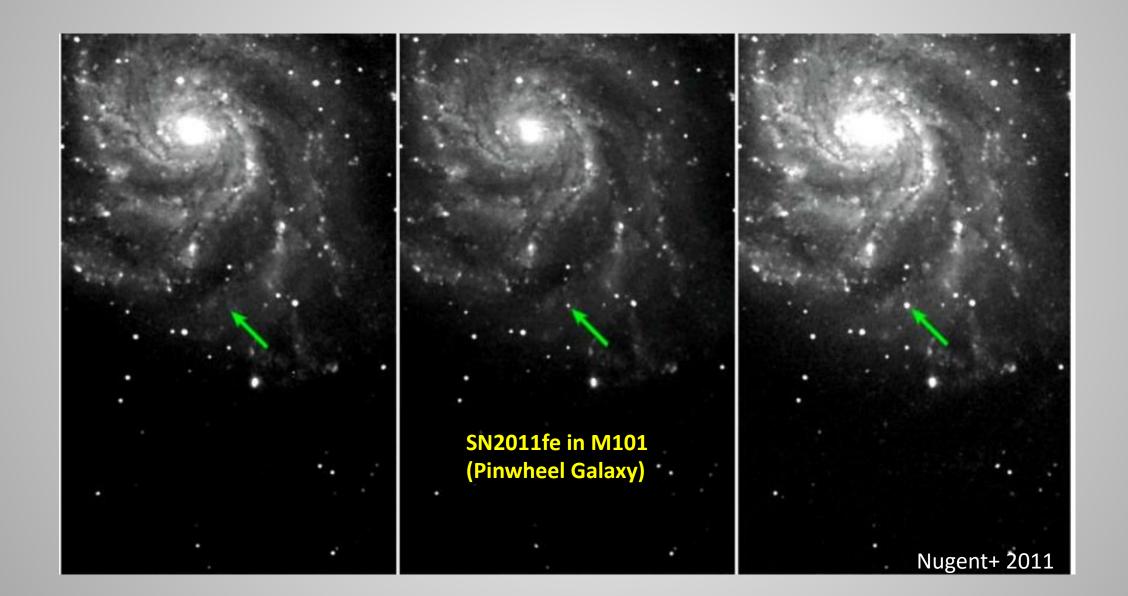
SN1972E

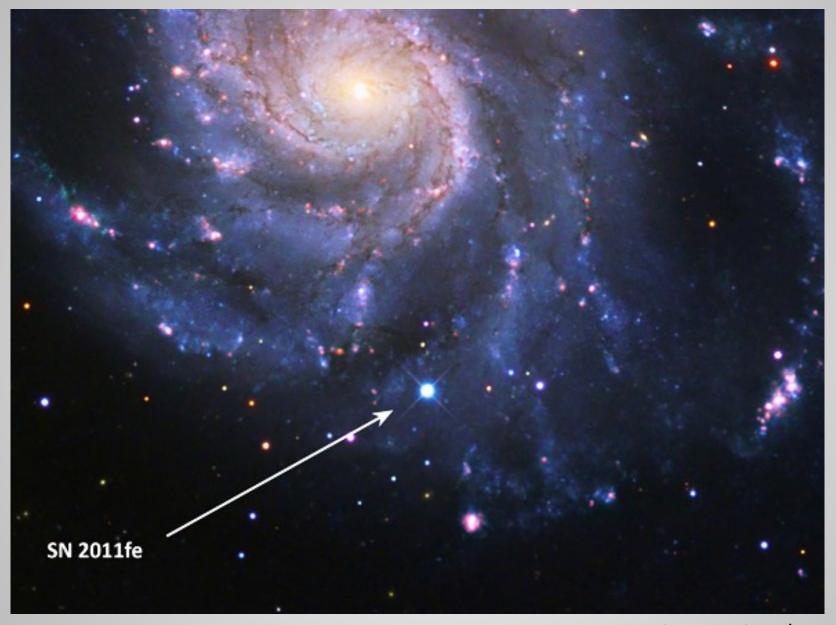






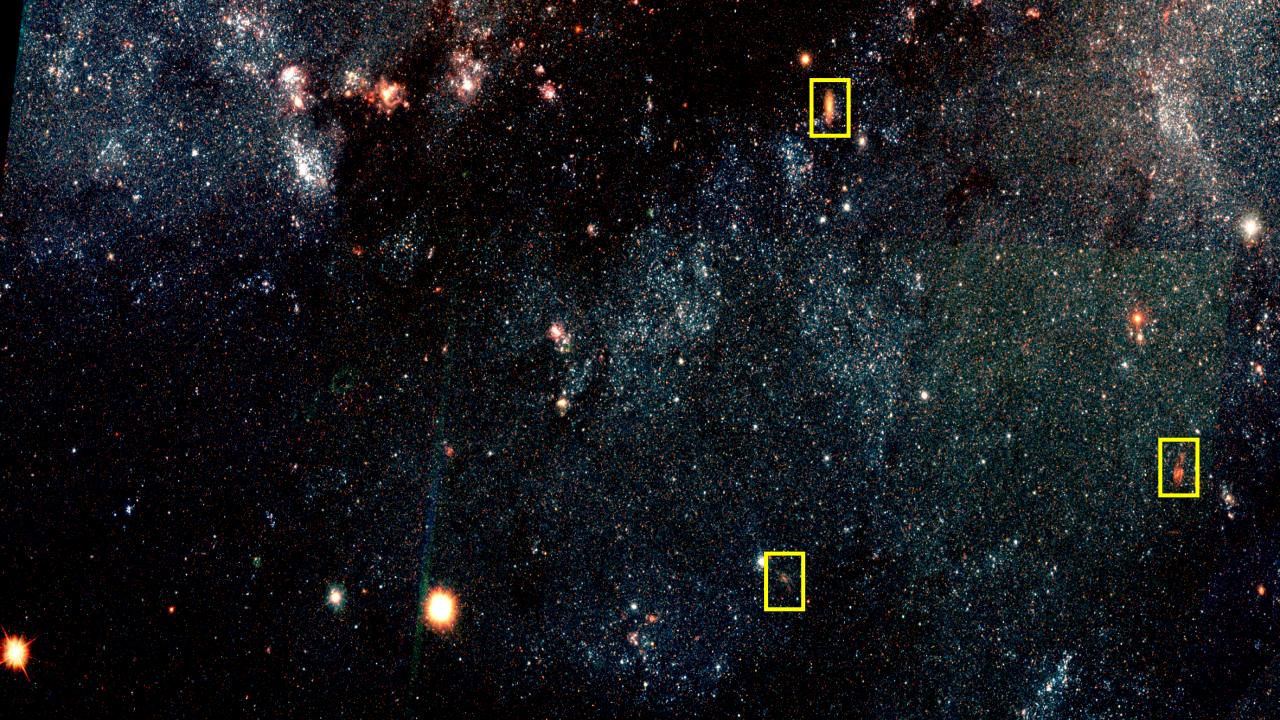


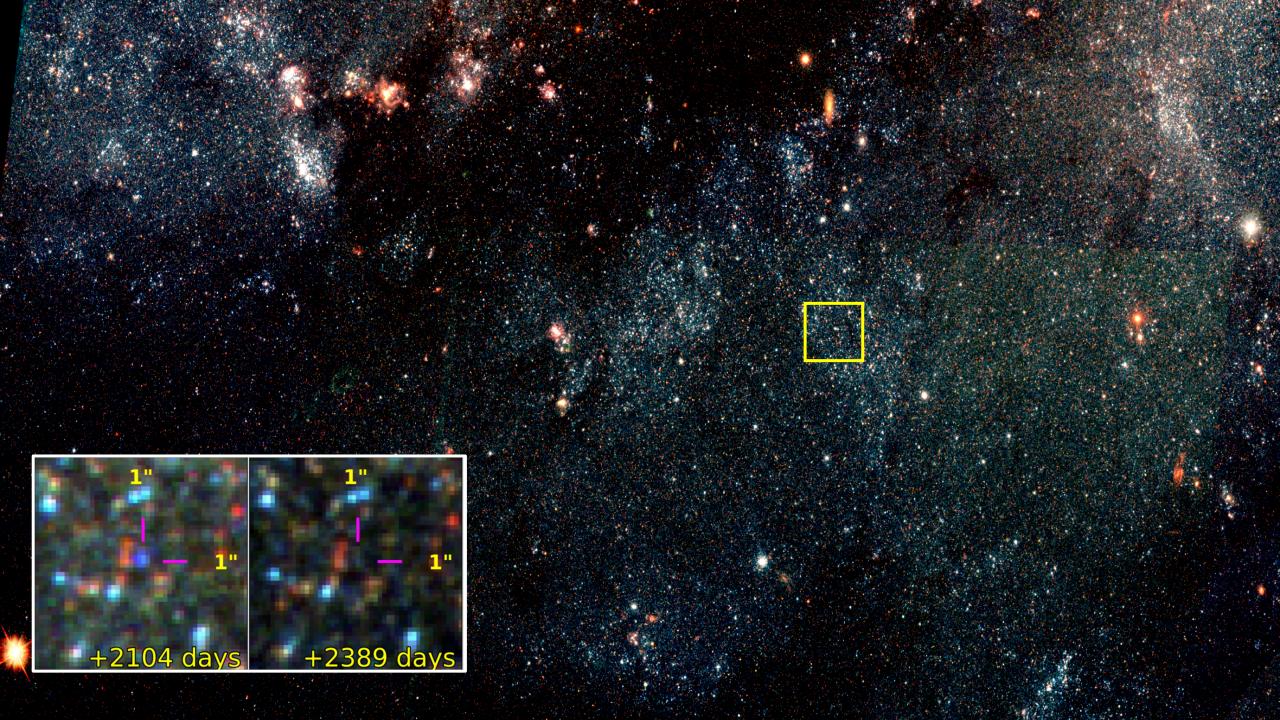


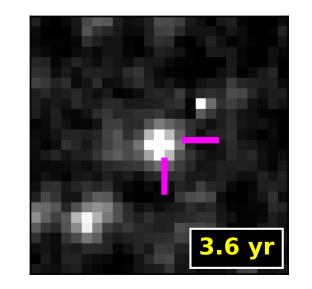


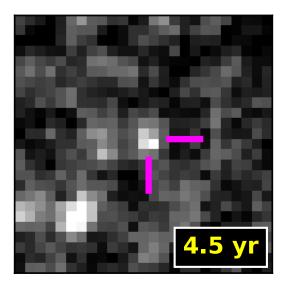
Credit: BJ Fulton/LCO

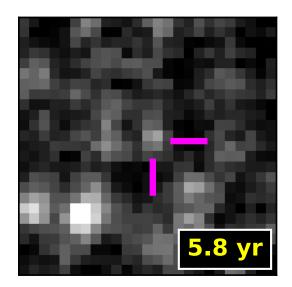


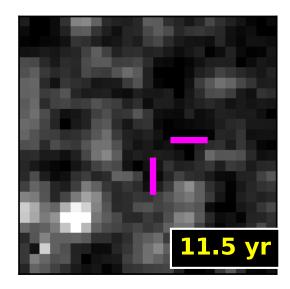


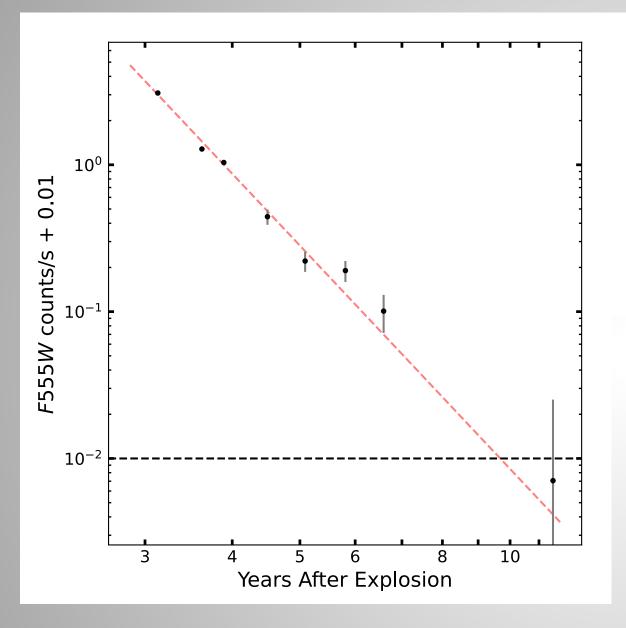


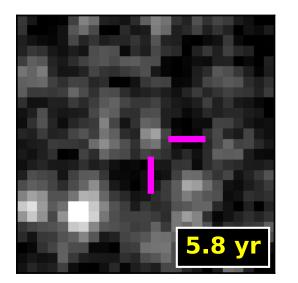


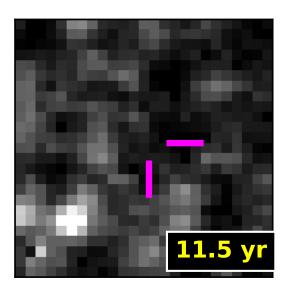








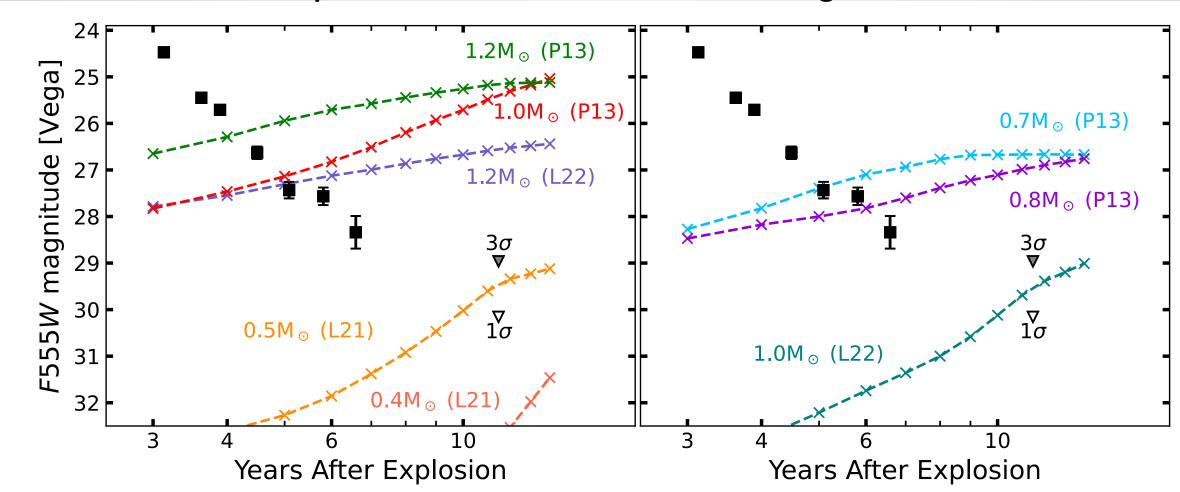


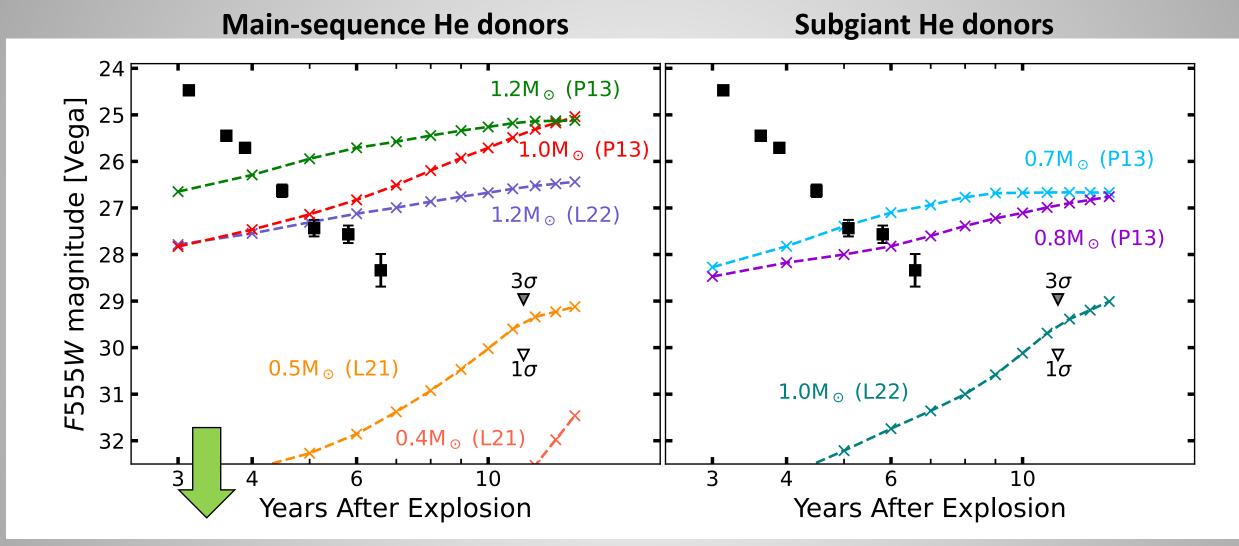


SN2011fe is now undetectable with HST after ~10 years



Subgiant He donors

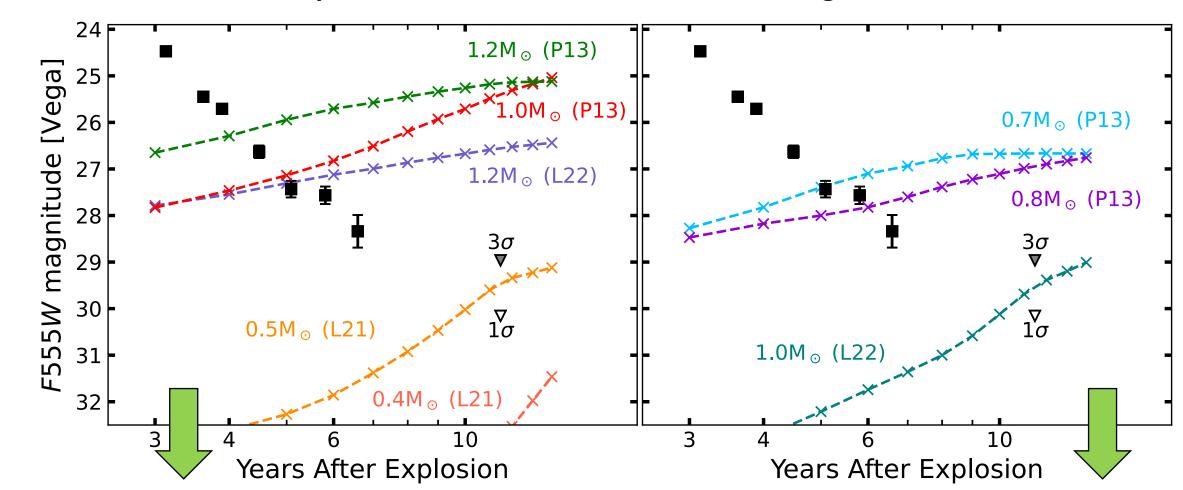




Too rare to match observed SN Ia rate



Subgiant He donors



Too rare to match observed SN Ia rate

Excluded by pre-explosion imaging

