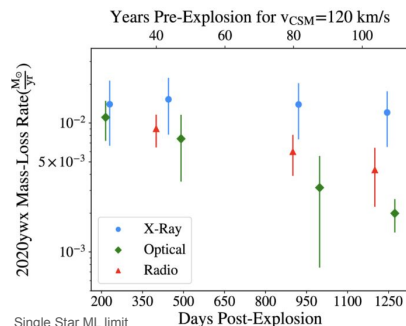


SN IIn 2020ywx

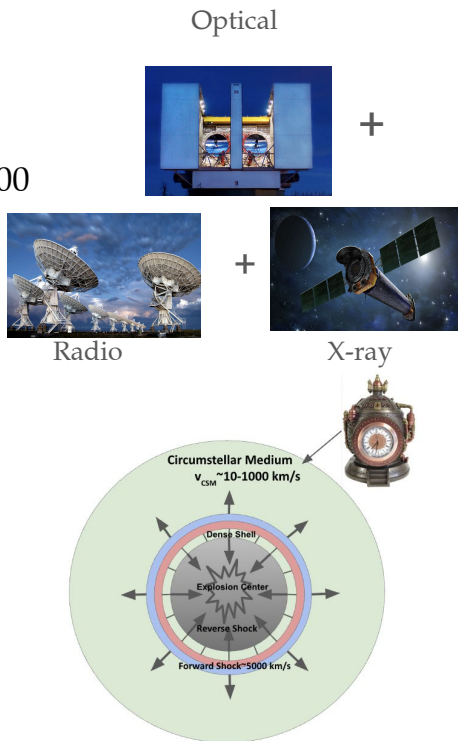
Radio, X-ray and optical data constrain mass-loss history

-> High mass-loss rate persisting for >100 years pre-explosion-differences across wavelengths suggests asymmetry

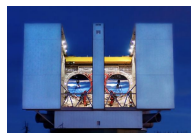
-> Likely **binary progenitor system**



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Optical



+



Radio



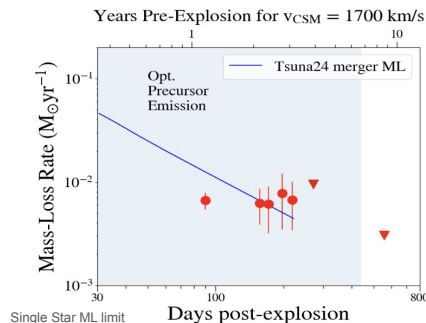
X-ray

SN Ibn 2023fyq

First detection of Ibn SN in the radio

Our radio detections constrain mass-loss rate over 1-10 years pre-explosion

Accelerated decline in mass-loss + X-ray non-detection ($L_X < 2e38$ ergs/s) suggests a relatively constant mass-loss rate with a drop at 8 years before explosion, in potential agreement with **merger preceding explosion (Tsunai+ 2024)**



Baer-Way+25b

Multiwavelength observations reveal the full mass-loss history (time machine!) and most likely progenitor mechanism of interacting SNe