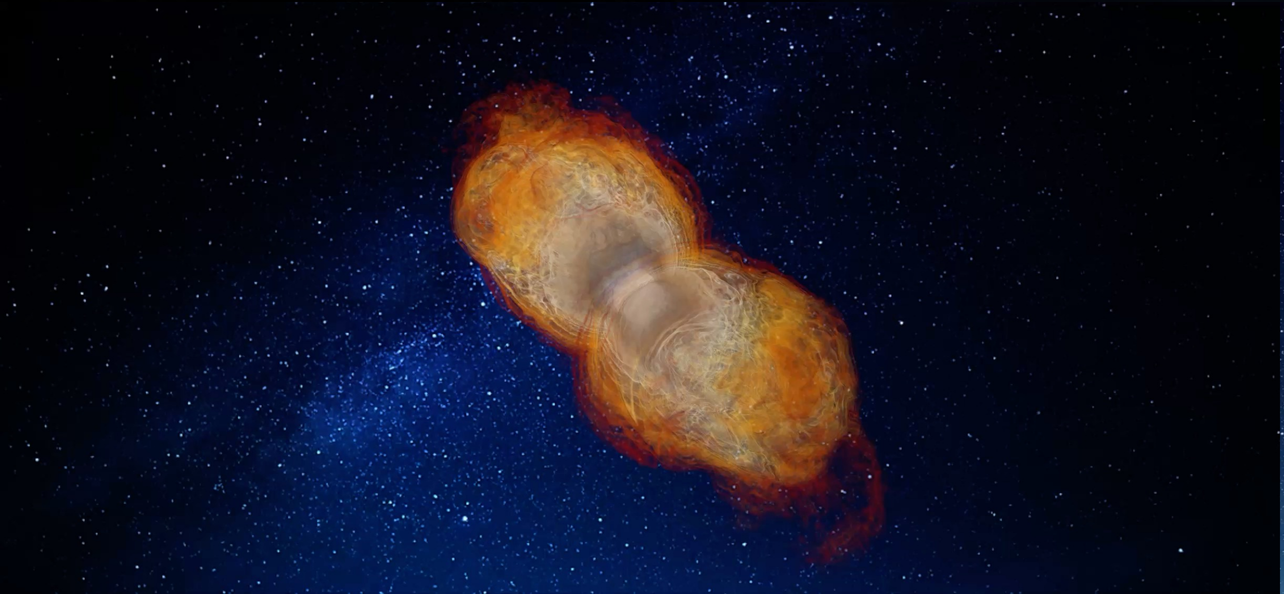
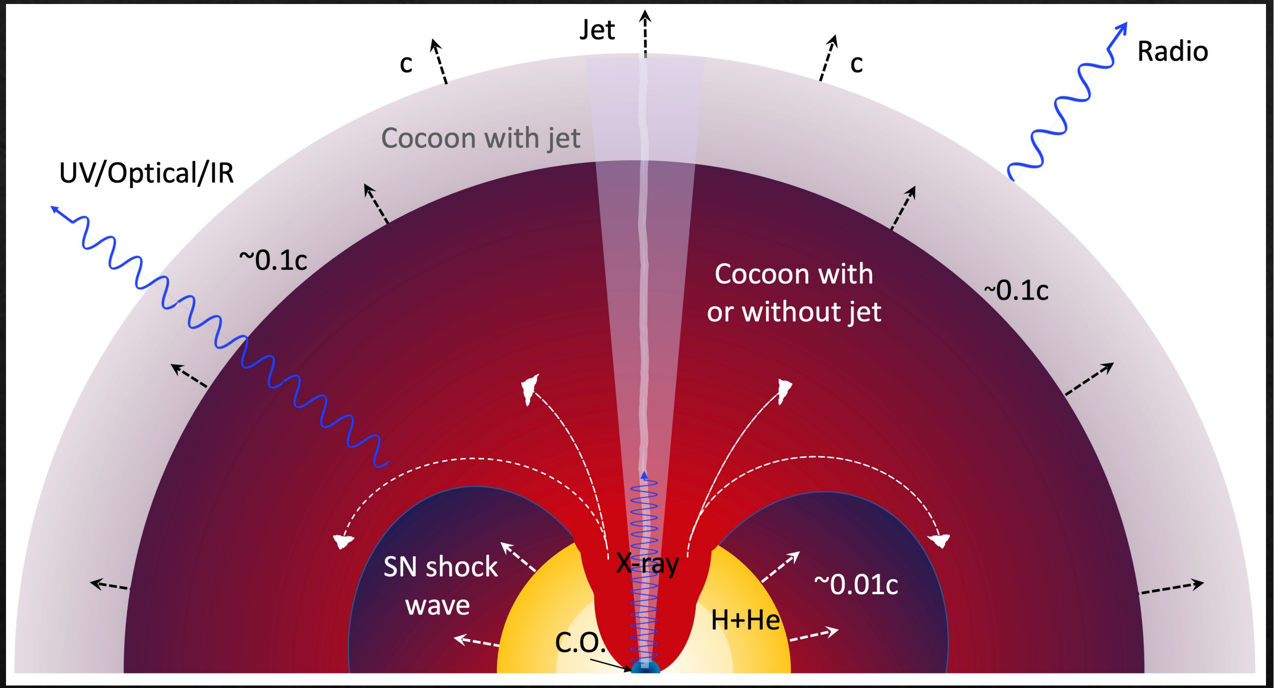
Hidden jets in (L)FBOTs

- Fast rise and decay + asymmetry + broad features → (mildly) relativistic collimated outflow
- Variable X-ray → Central engine (Margutti et al. 2019)
- SSA radio → Dense CSM in star-forming galaxies → stripped envelope (Ib/c) SNe?
- FBOT radio resembles that of GRBs (Coppejans et al. 2020, Ho et al. 2020, Mooley et al. 2021)



Shocked jets do such transients

- Quasi-thermal spectrum
- Energy: $E_c \approx L_{GRB} \times t_B \approx 10^{50} - 10^{51}$ erg
- Early rise and fast decay, $L(t) \propto t^{-2.4}$
- Broad H lines from star outer layer or CSM



Gottlieb et al. 2022b

- Rise in radio originates in the structure of the mildly-relativistic outflow
- After ~3 days the cocoon bcomes optically thin to the X-ray photons from the accreting BH