



Contribution ID : 88

Type : **Contributed talk**

An Aspherical Circumstellar Medium Surrounding Double-peaked Ic-BL SN2022xxf

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Stripped-envelope core-collapse supernovae are the violent explosions that mark the death of a massive star that had some or all of its outer H and He layers stripped off. One class of stripped-envelope supernovae is the rare Type Ic-BL; these are the only events associated with the detection of a long-duration gamma-ray bursts, but it is still unclear why only some Ic-BLs accompany a gamma-ray burst detection. Radio observations probe the gas in the vicinity of a supernova, which contextualizes the lives of highly stripped stars and can tell us about which stars may produce a gamma-ray burst. In this talk, I will present radio observations of SN2022xxf, the nearest Ic-BL to date and discuss how its double-peaked light curve reveals the complex stripping mechanisms that shape these rare events.

Did you give a contributed talk at CASCA 2026?

No

If you are selected for a poster, would you be interested in giving a short flash talk on your work?

Yes

What is your career level?

Other

Which keyword describes the area of focus of this talk?

Transients

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