Bow shocks in cataclysmic variables

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List of publications

First author publications:

- Iłkiewicz et al. (2026, Nature Astronomy) → bowshock in CV
- Iłkiewicz & Netzel (2026, A&A) → X-rays of classical pulsators
- Iłkiewicz et al. (2025, A&A) → post-AGB circumbinary disc

Other referred publications:

- Merc et al. (2026a, MNRAS)
- Merc et al. (2026b, MNRAS)
- Stoyanov et al. (2025, A&A)
- Stoyanov et al. (2025,BlgAJ)

Other noteworthy activities

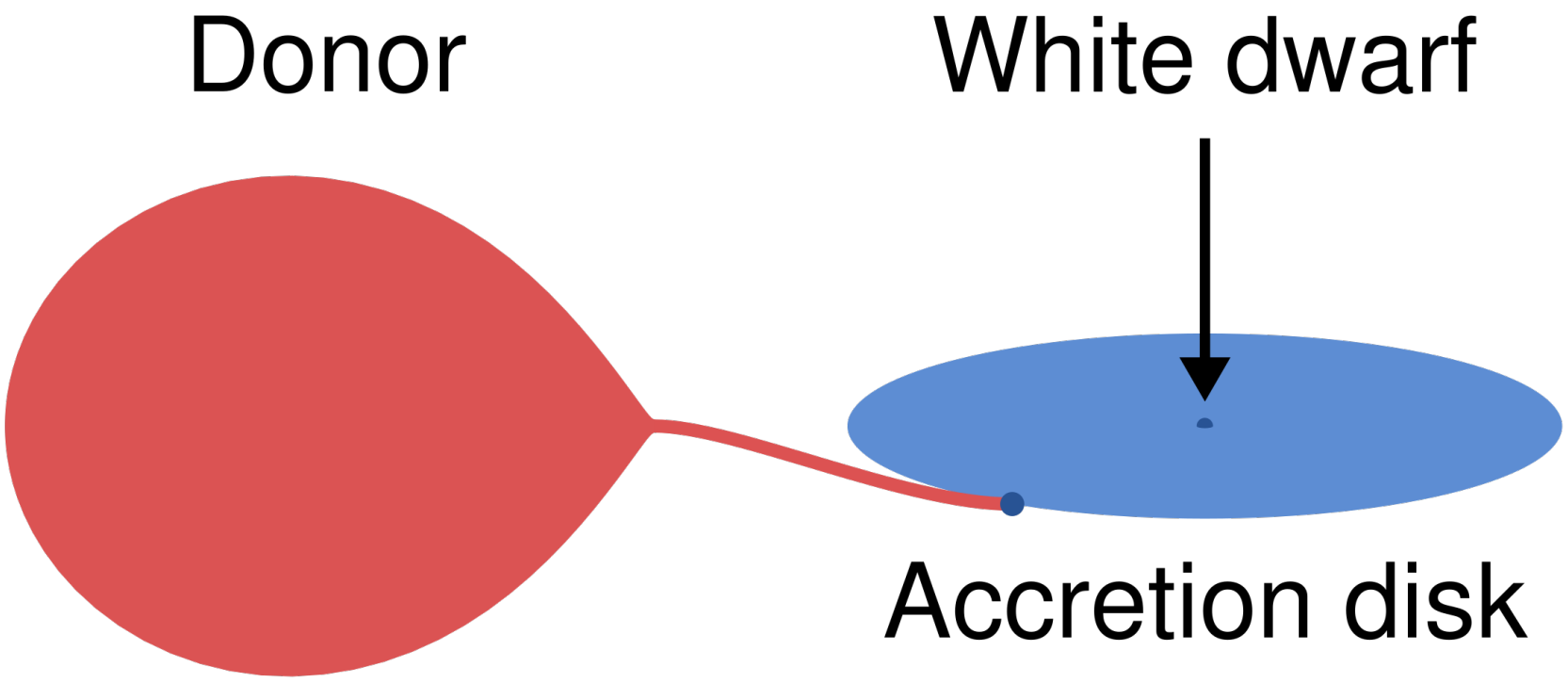
PI of NCN SONATA grant **2024/55/D/ST9/01713**

PI of awarded observing time (2026):

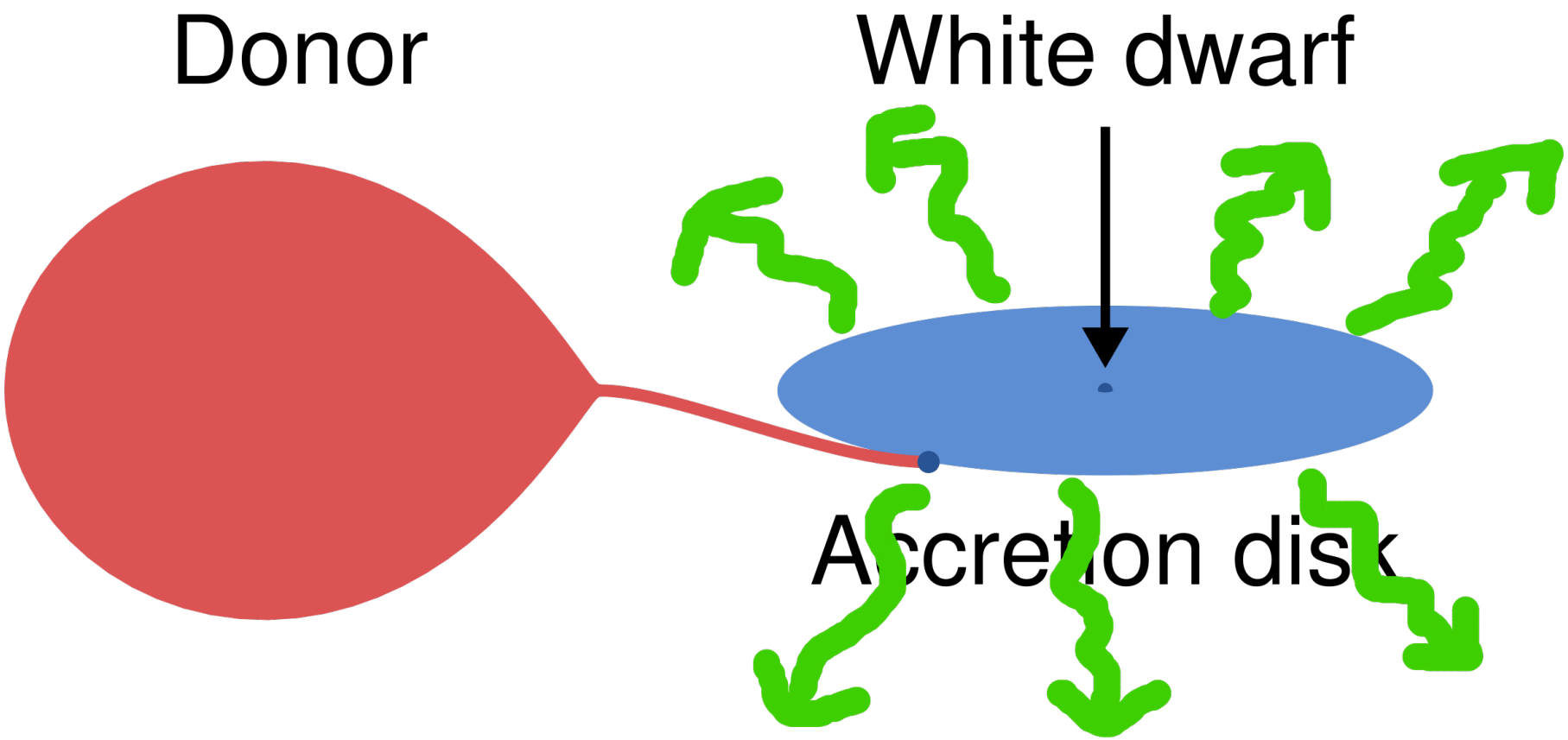
- HST
- ESO VLT

Referee of papers in: ApJ Letters, A&A, Publications of the Astronomical Society of the Pacific, New Astronomy

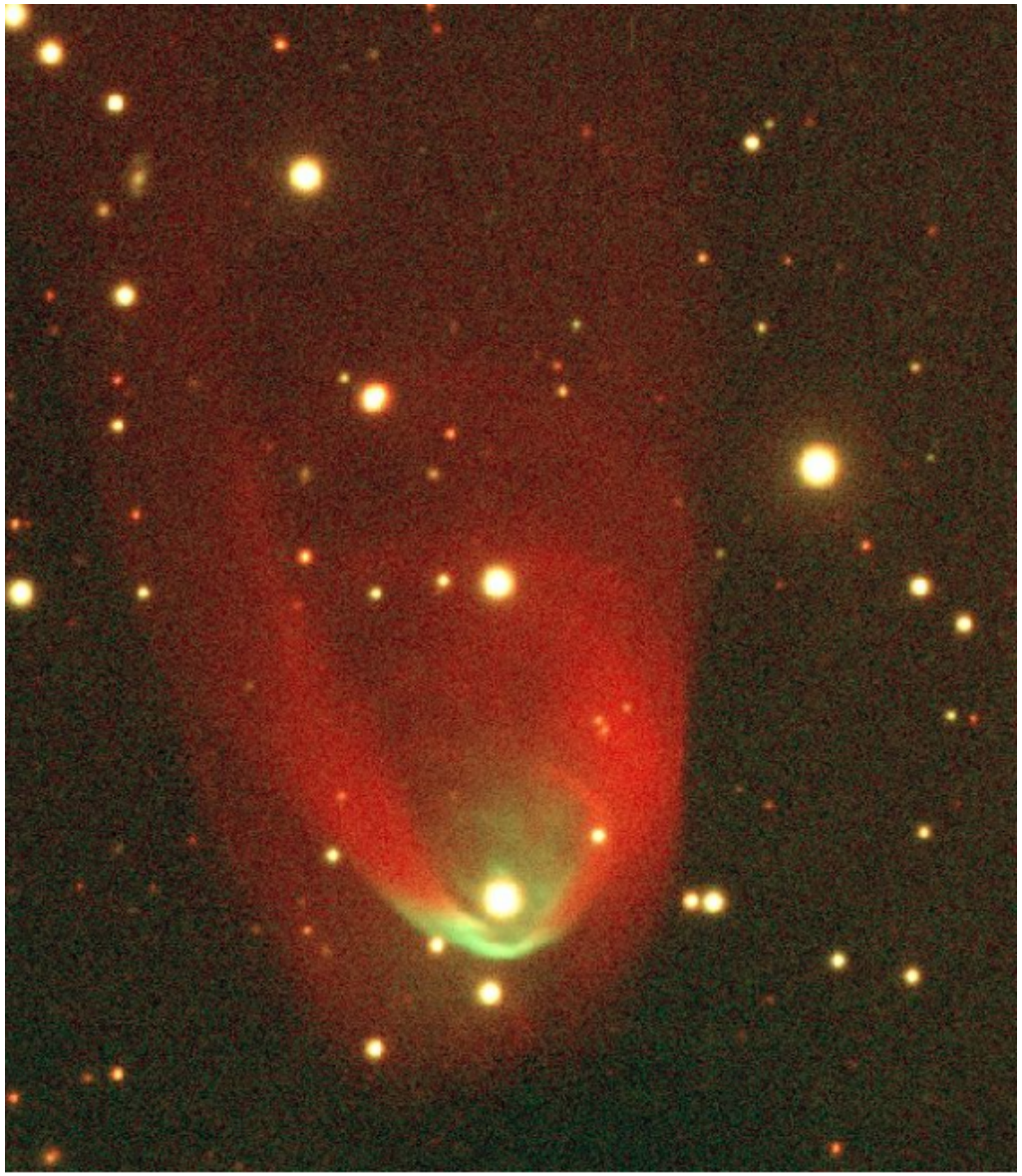
Cataclysmic variables



Outflows from cataclysmic variables

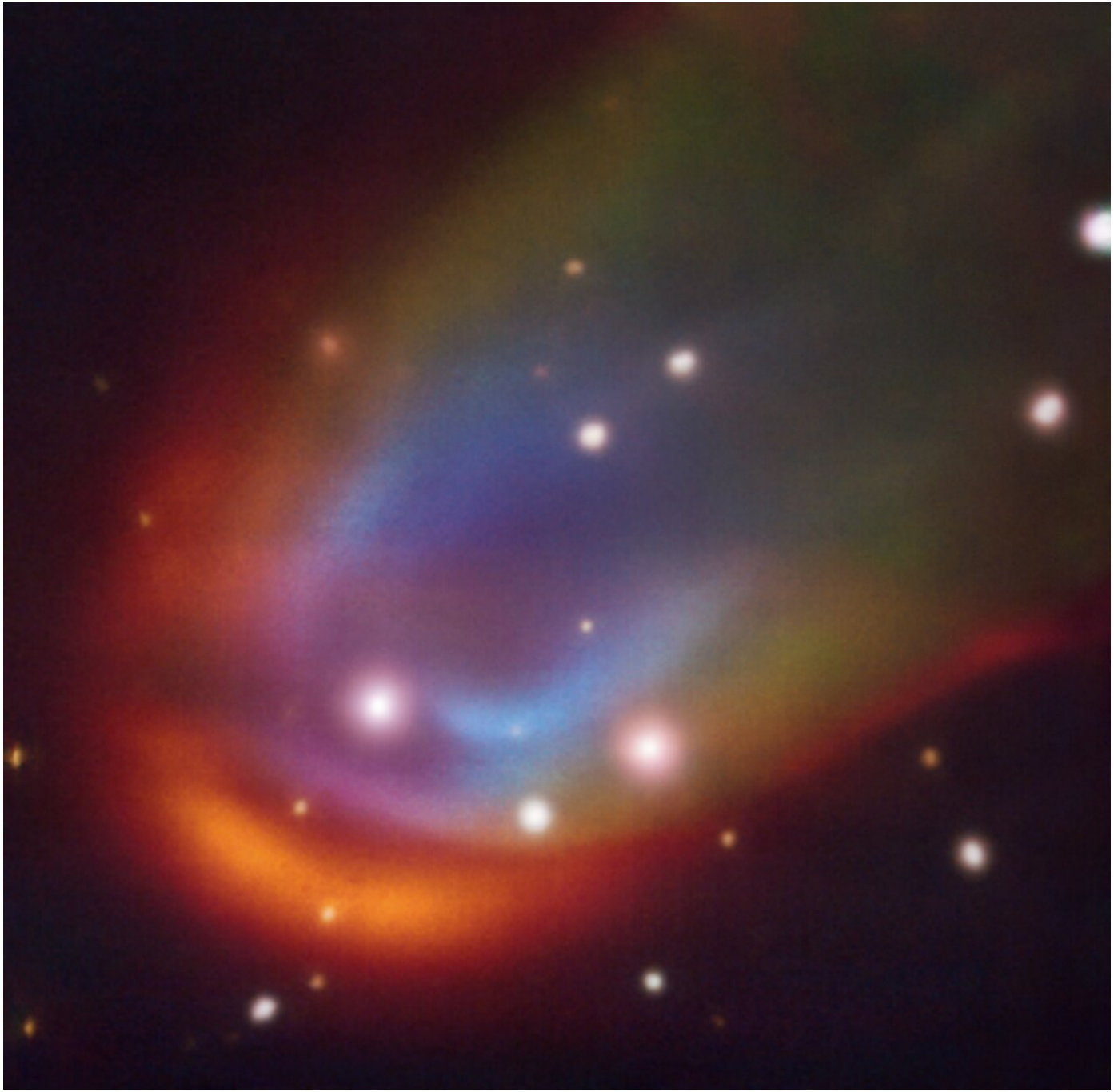


BZ Cam bow shock

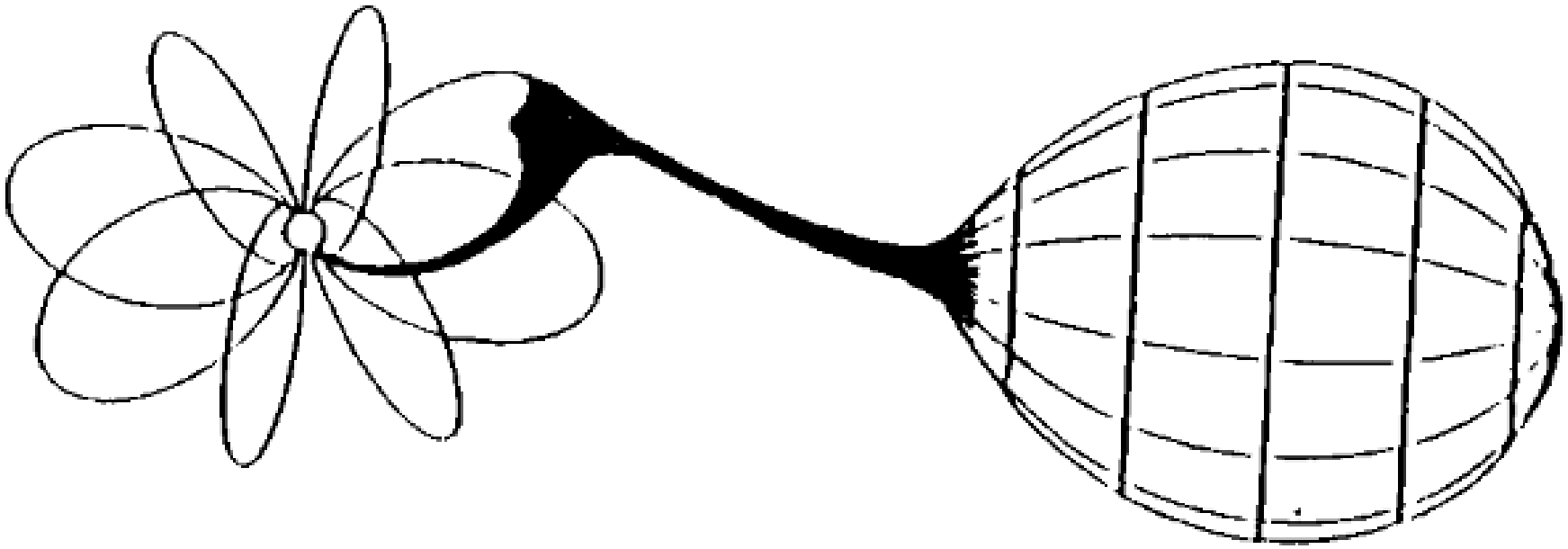


Bond & Miszalski (2018)

RXJ0528+2838 bow shock

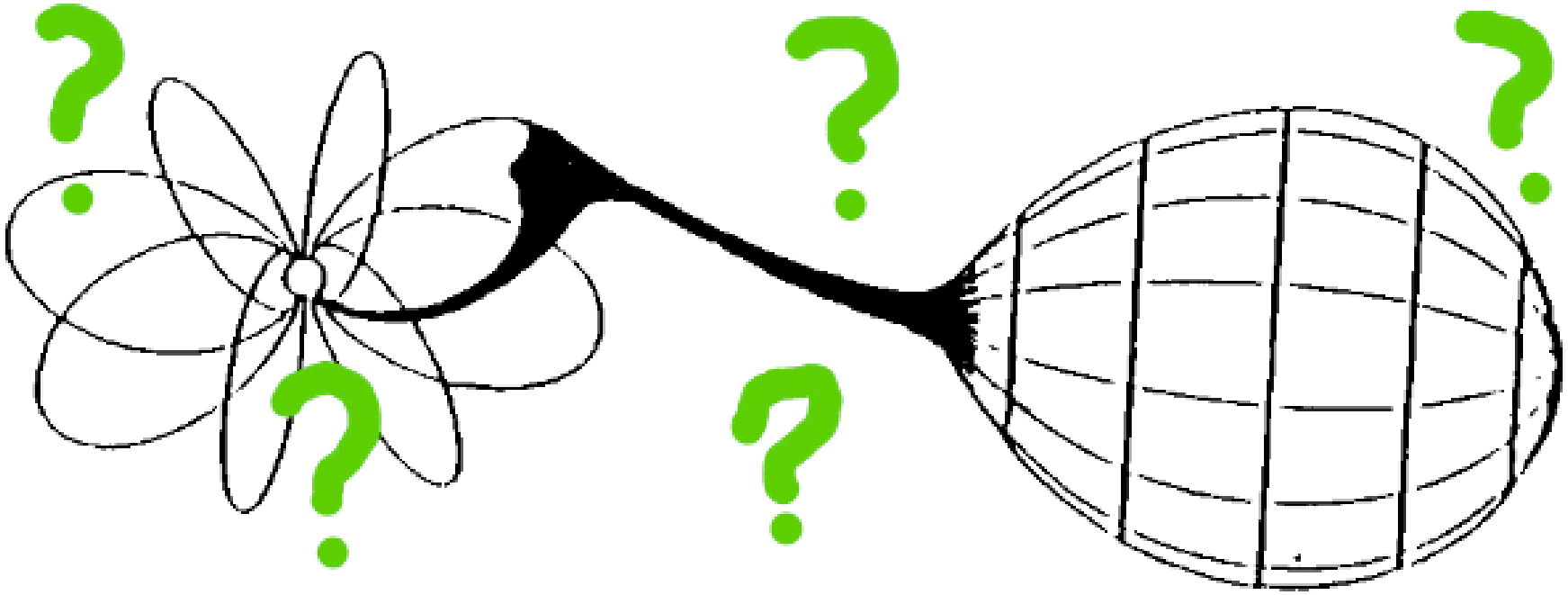


Polars



Warner (1995)

Polars - no known outflow mechanism



Warner (1995)

Strong ($L_{\rm outflow} > L_{\rm acc}$), long-lived ($>> 10^3$ yr) outflow of unknown origin