COMBINING INTERFEROMETRIC MEASUREMENTS WITH HYDRO SIMULATIONS TO UNDERSTAND THE COLLIDING WIND BINARY GAMMA VEL

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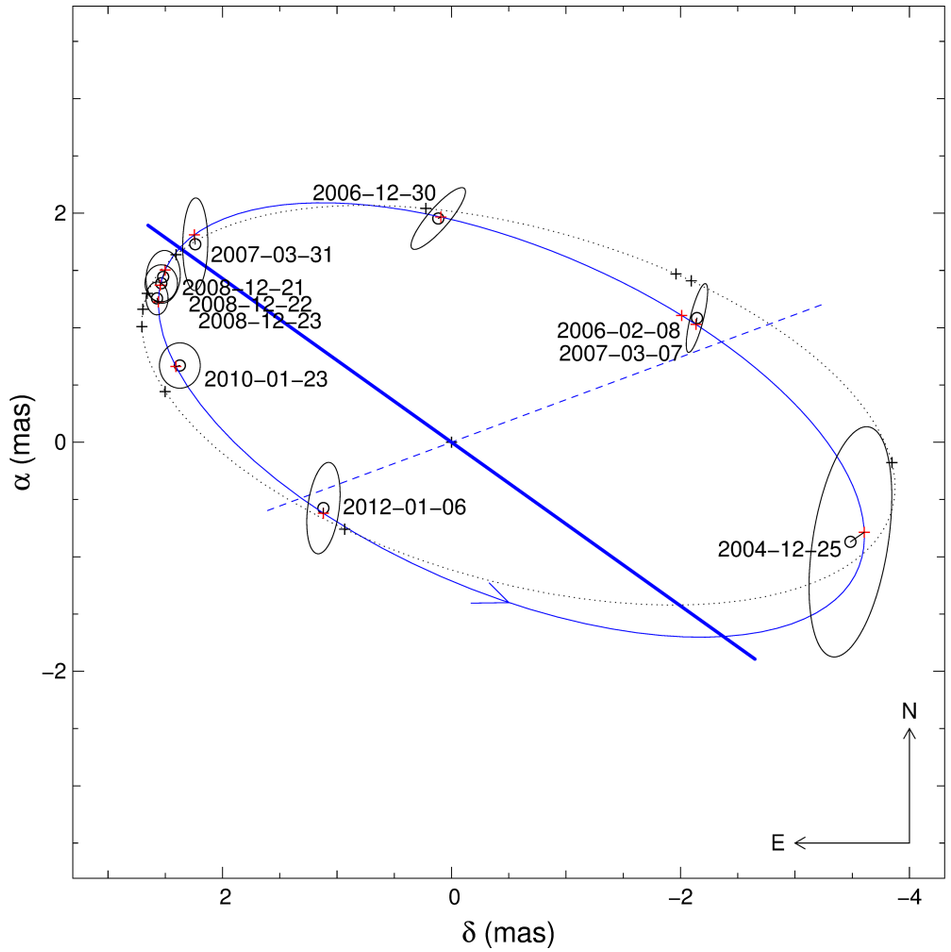
Gamma Vel:

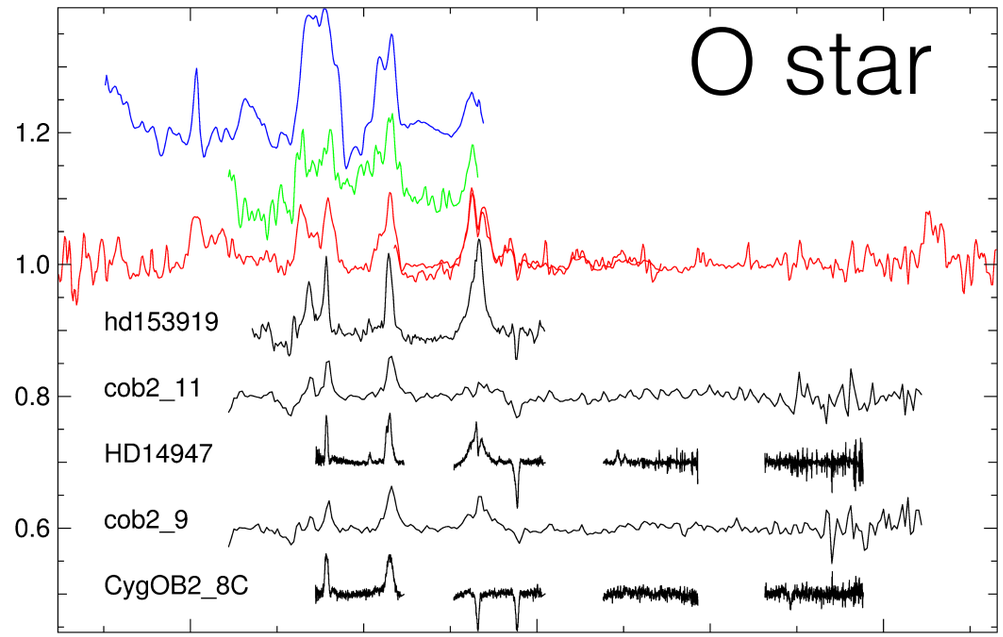
- closest WR +O binary
- P=78 d
- supersonic winds collide
- spectra + photometry from near IR to X

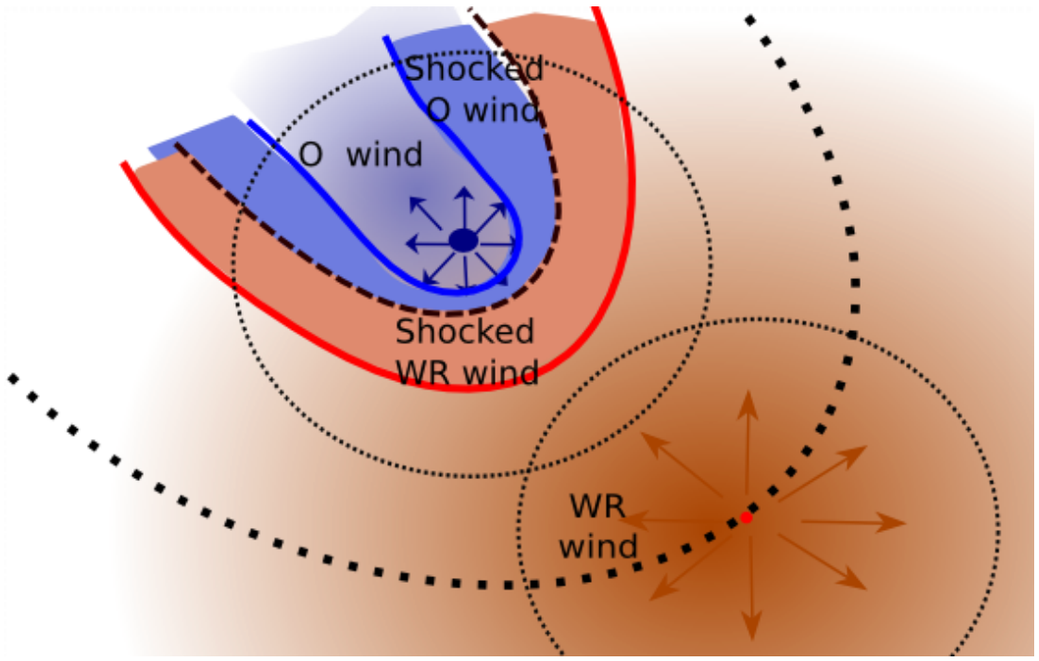


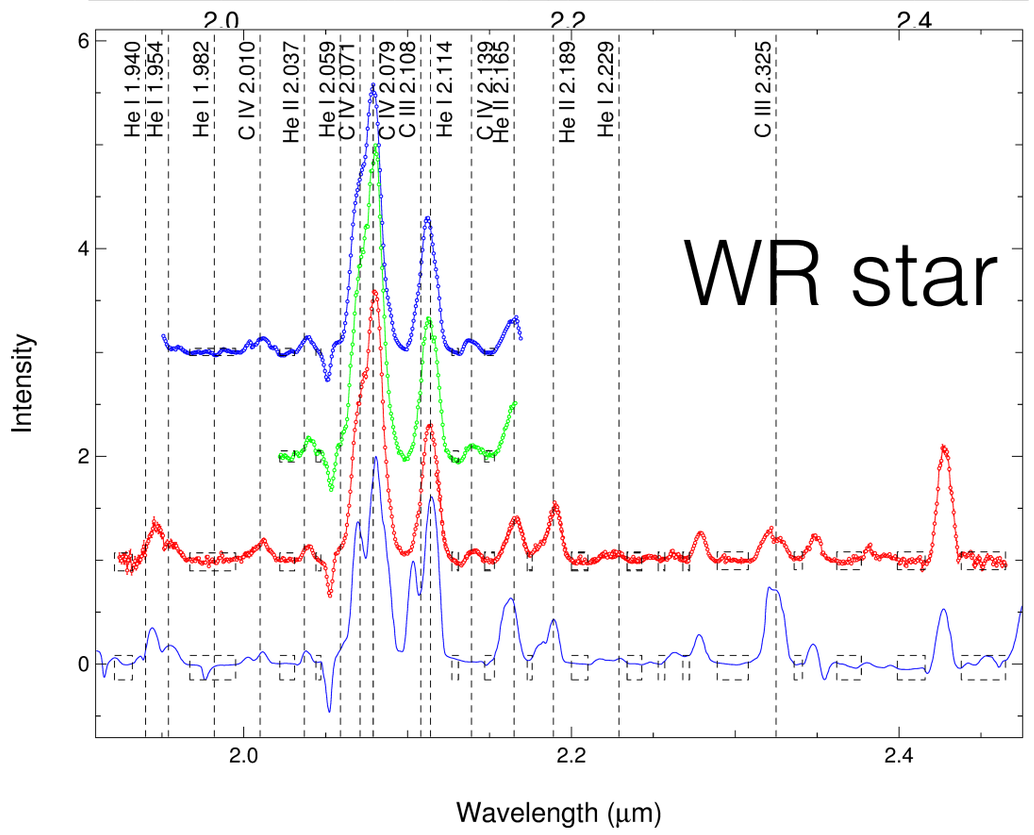
INTERFEROMETRIC OBSERVATIONS

VLTI/AMBER observations

- J,H,K bands
- 10 observations/7 years
-spectral separation => residuals = wind collision region?







HYDRODYNAMIC SIMULATIONS

RAMSES code

-3D AMR code, cooling

-mock free-free emission maps, all phases

- mock visibility curves

-spectral info

=> confirm presence of wind collision