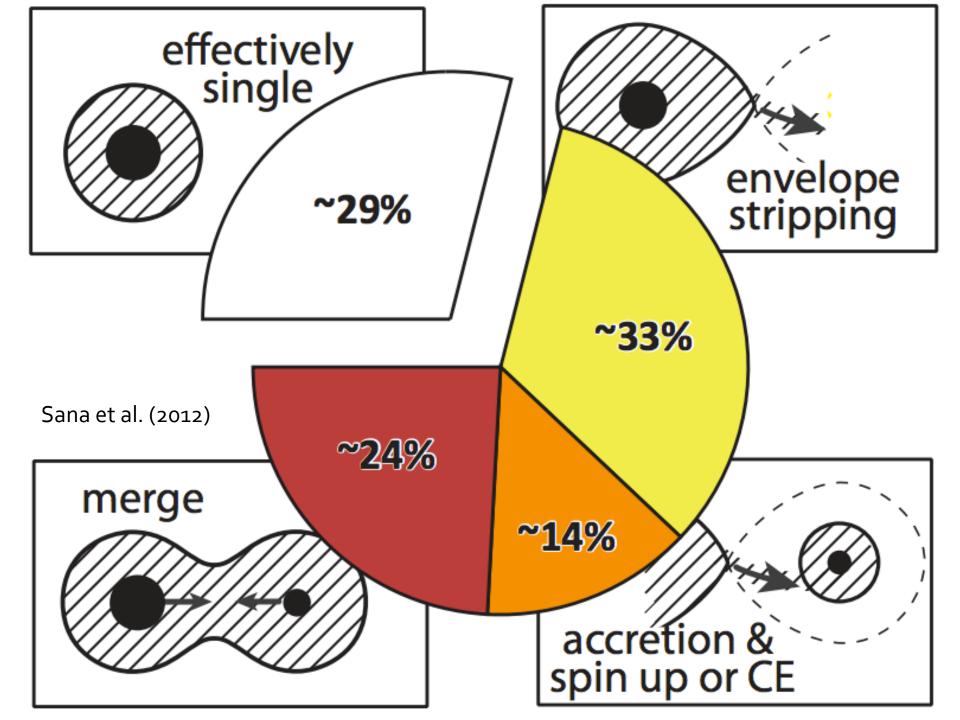
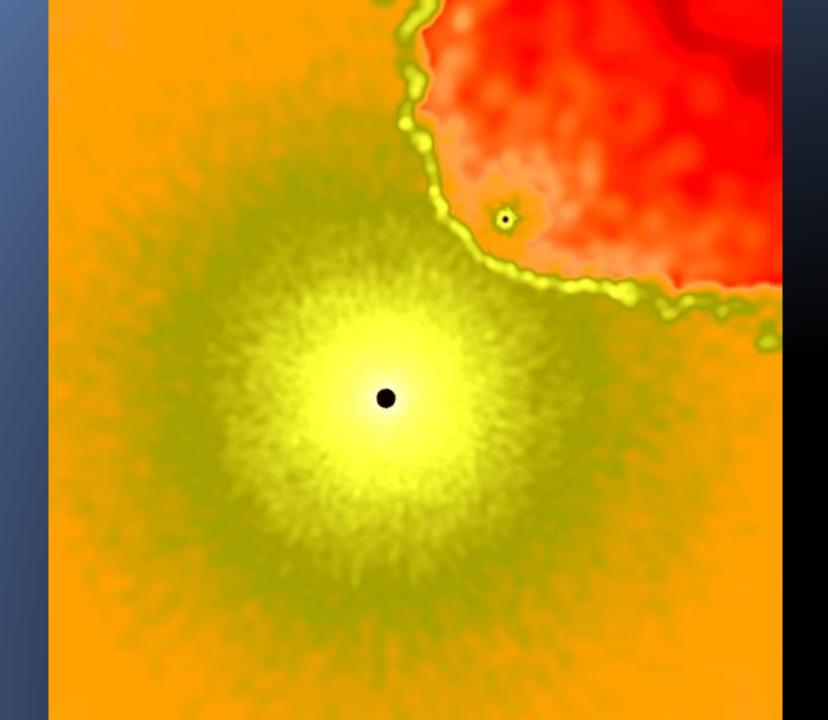
CONFRONTING MODELS AND OBSERVATIONS OF COLLIDING WINDS BINARIES

Noel Richardson Ritter Observatory, University of Toledo

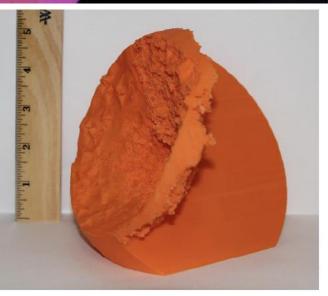




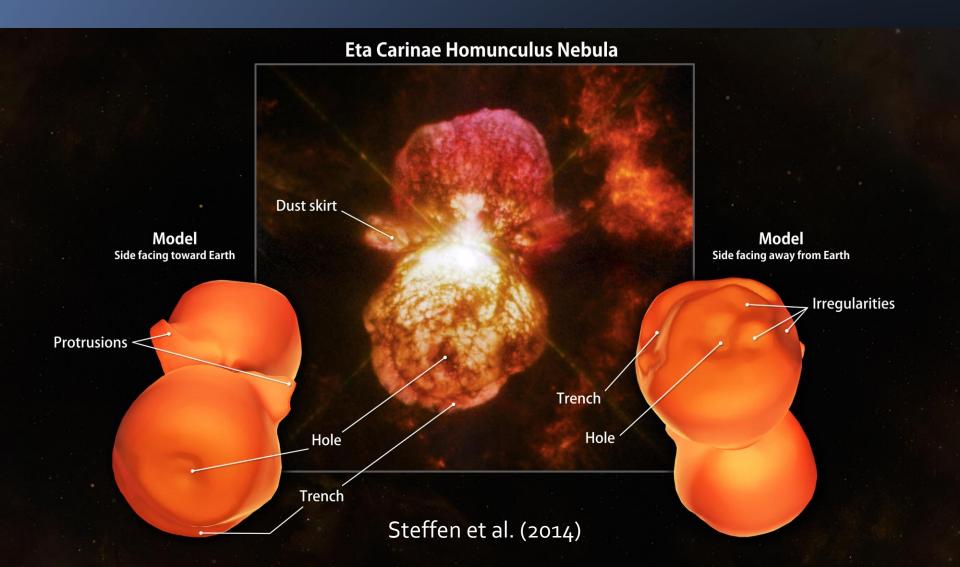
Madura et al. (2015)



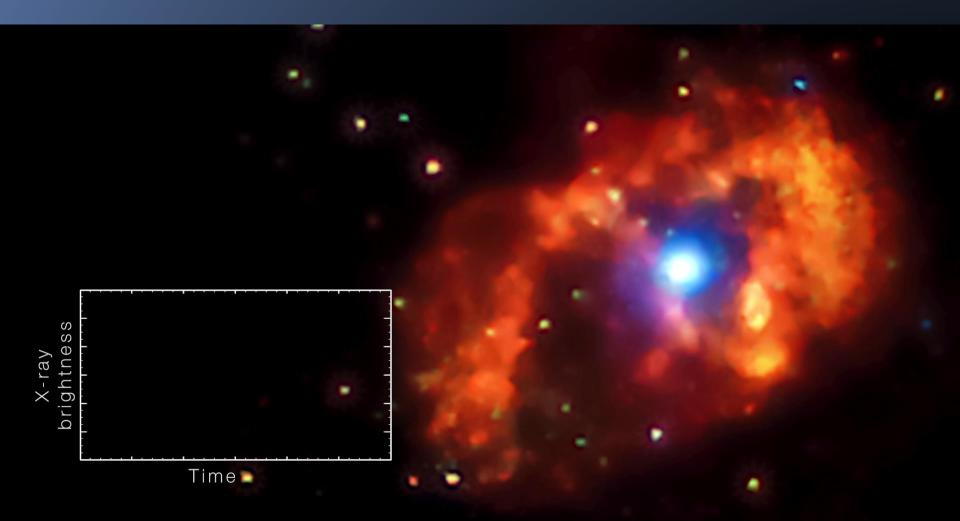




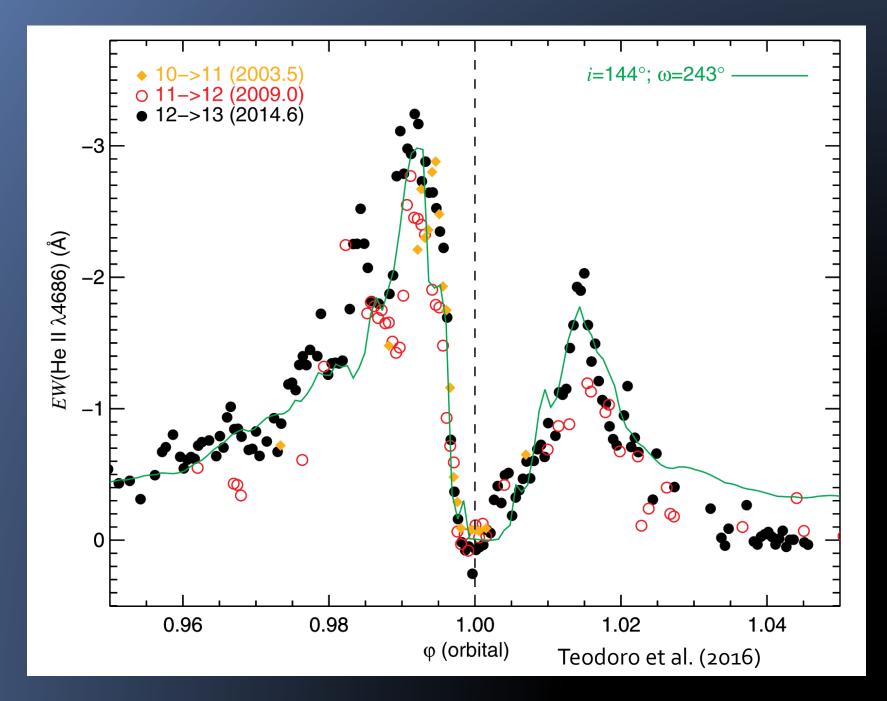
η Carinae

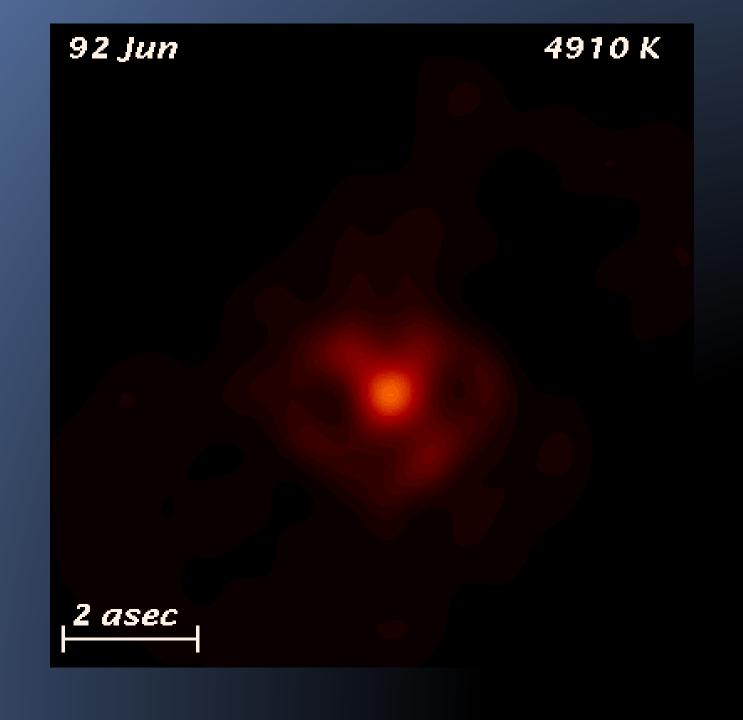


Multi-wavelength effects

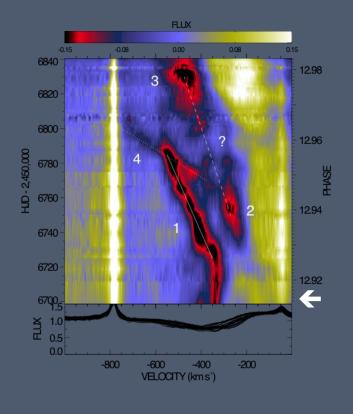


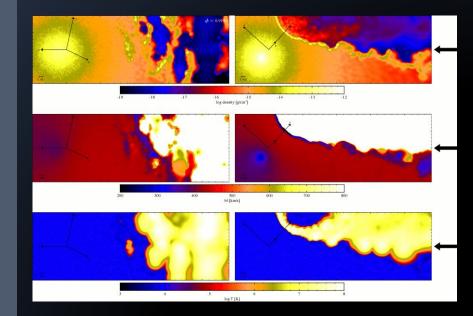
Corcoran et al. (in press)

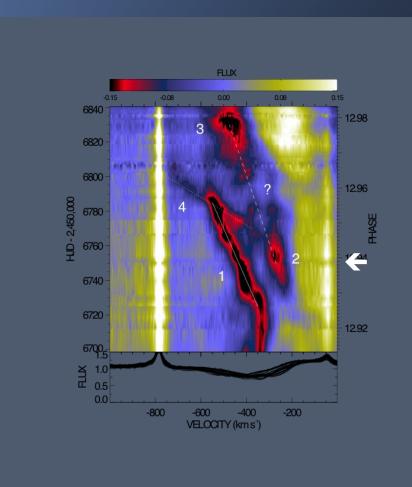


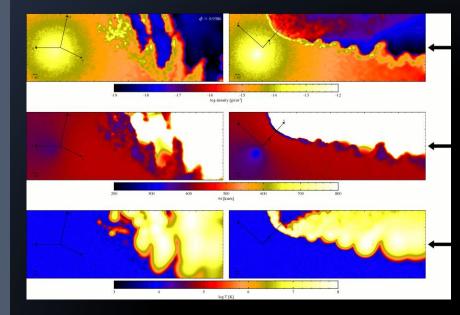


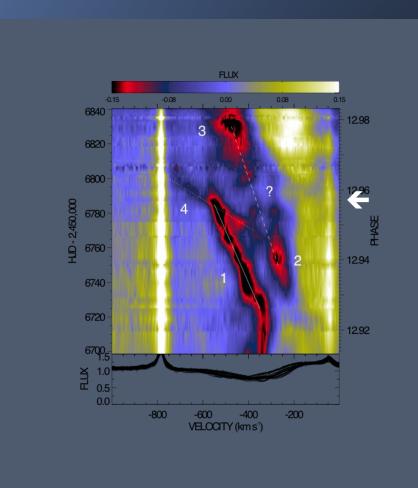
Models describe qualitative features in the spectra...

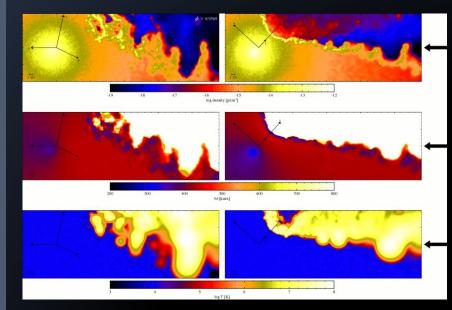


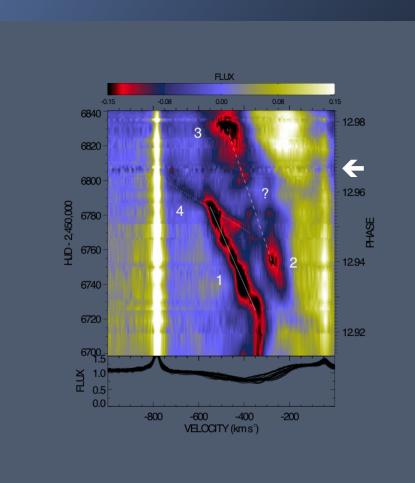


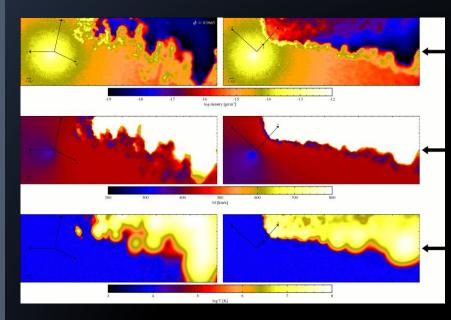


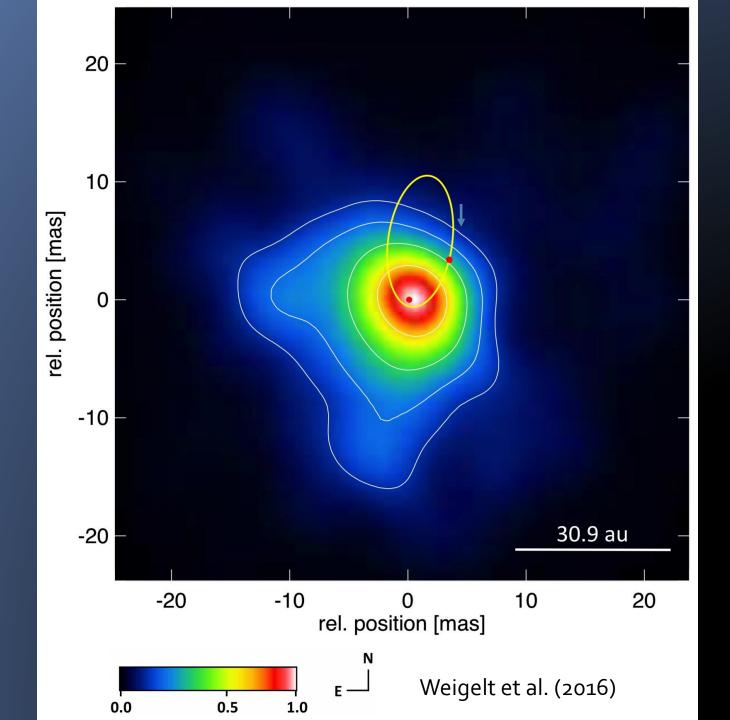


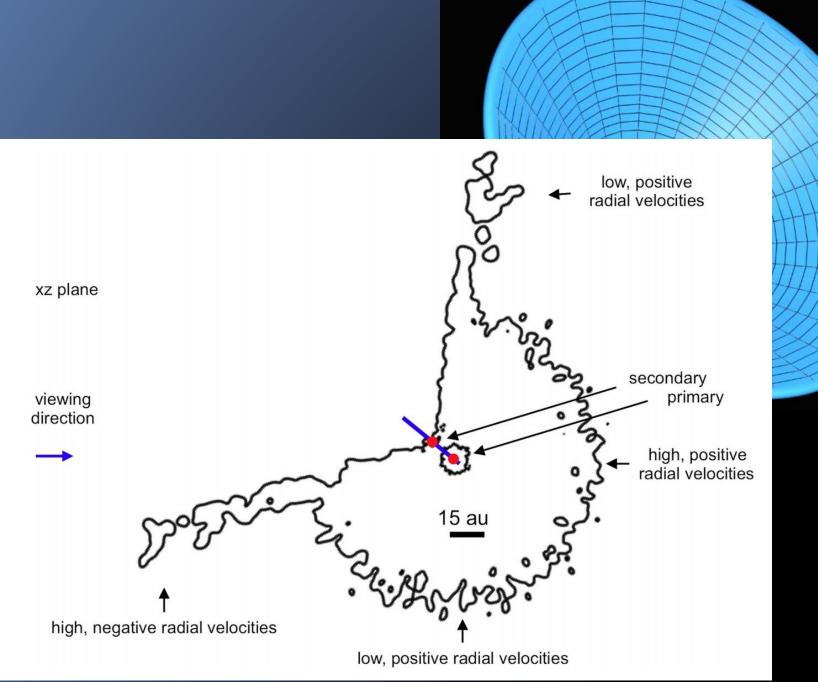


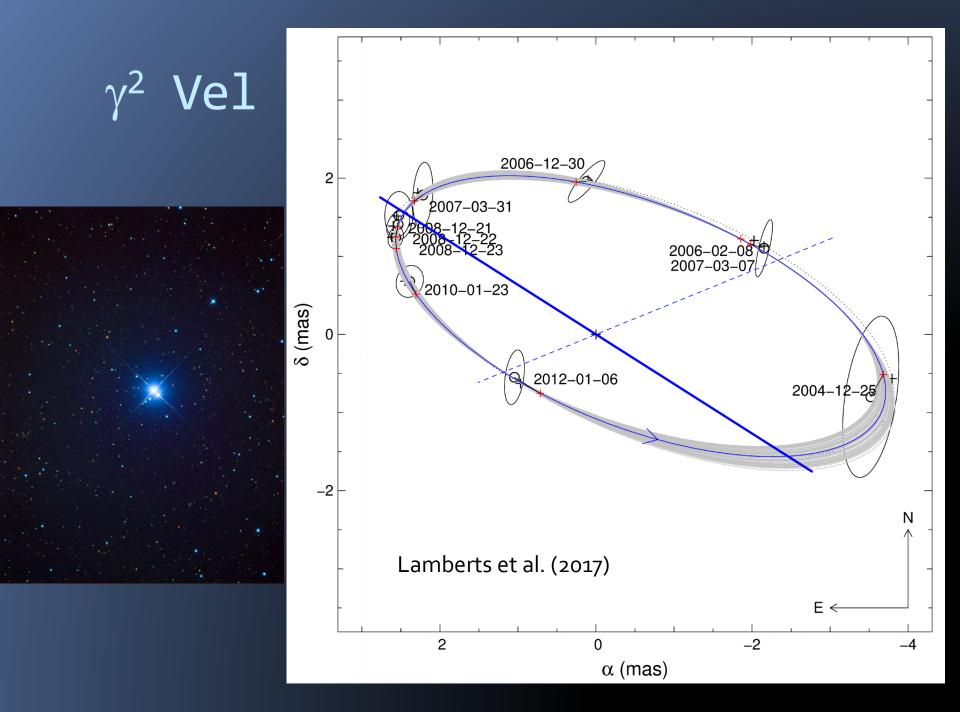


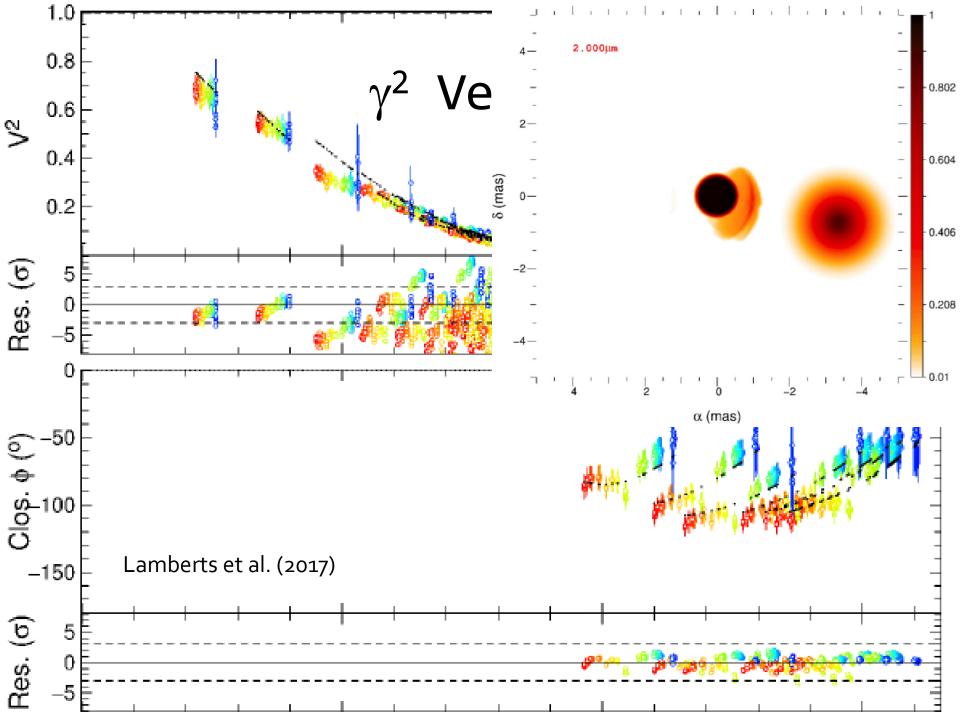




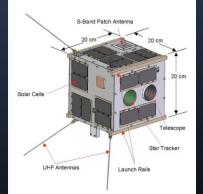


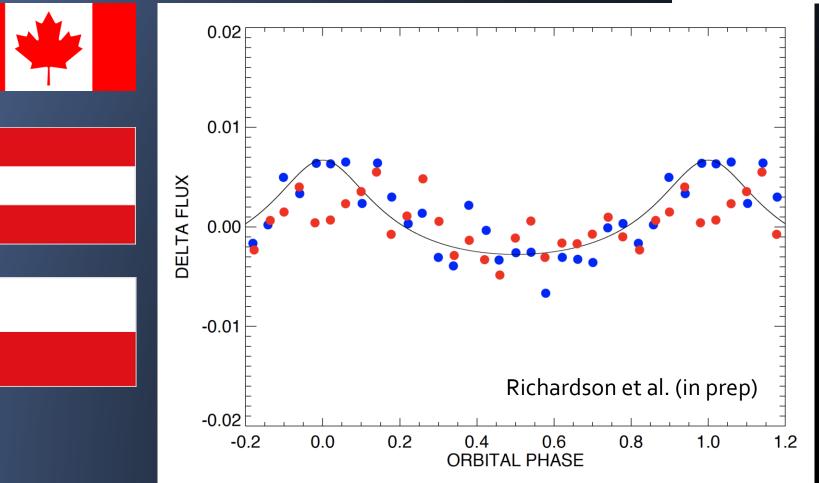


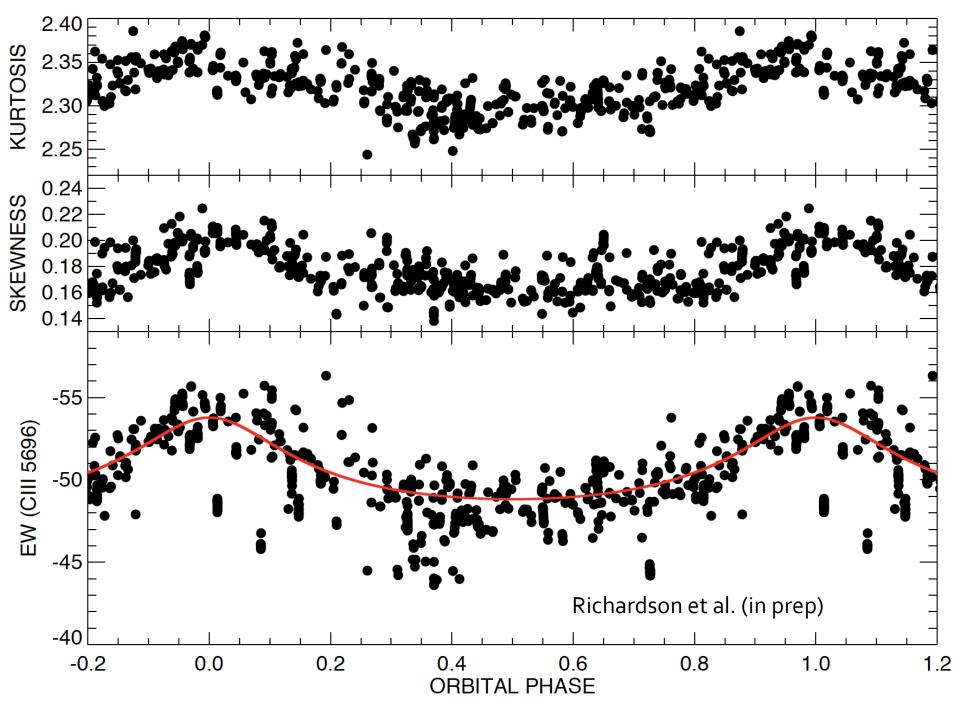


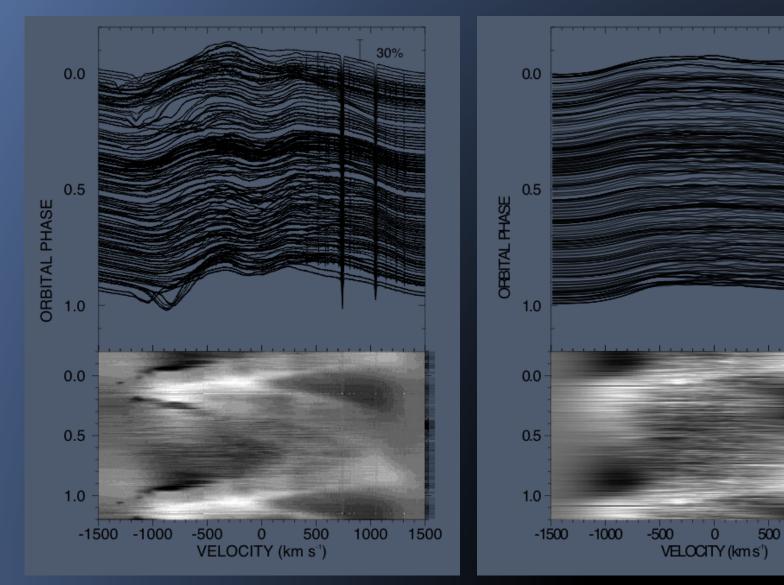


BRITE photometry









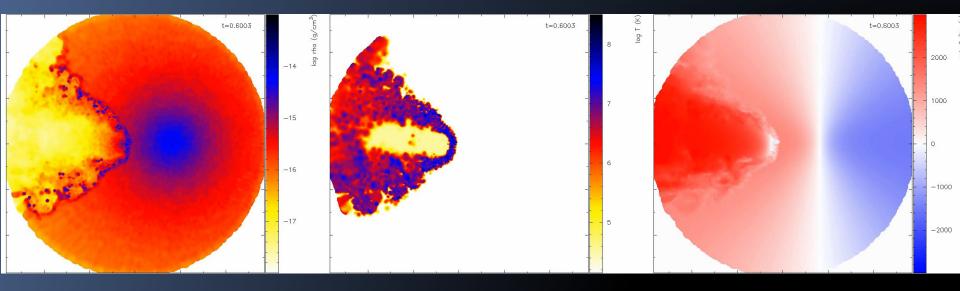
Richardson et al. (in prep)

200%

1000

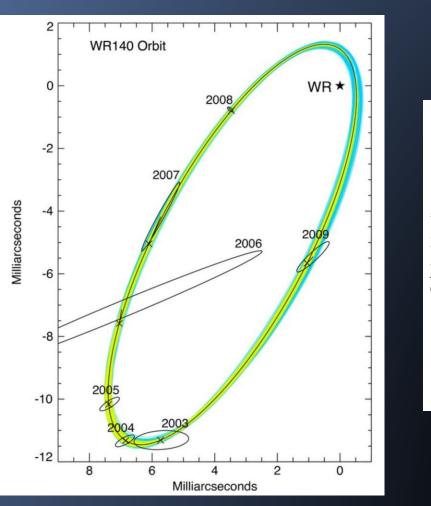
1500

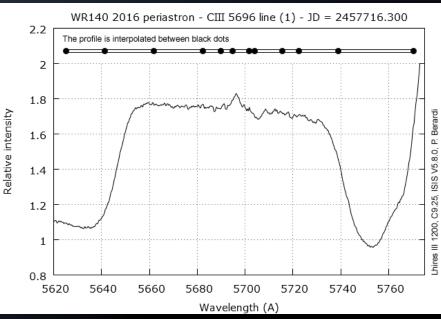
Preliminary modeling



Richardson et al. (in prep)

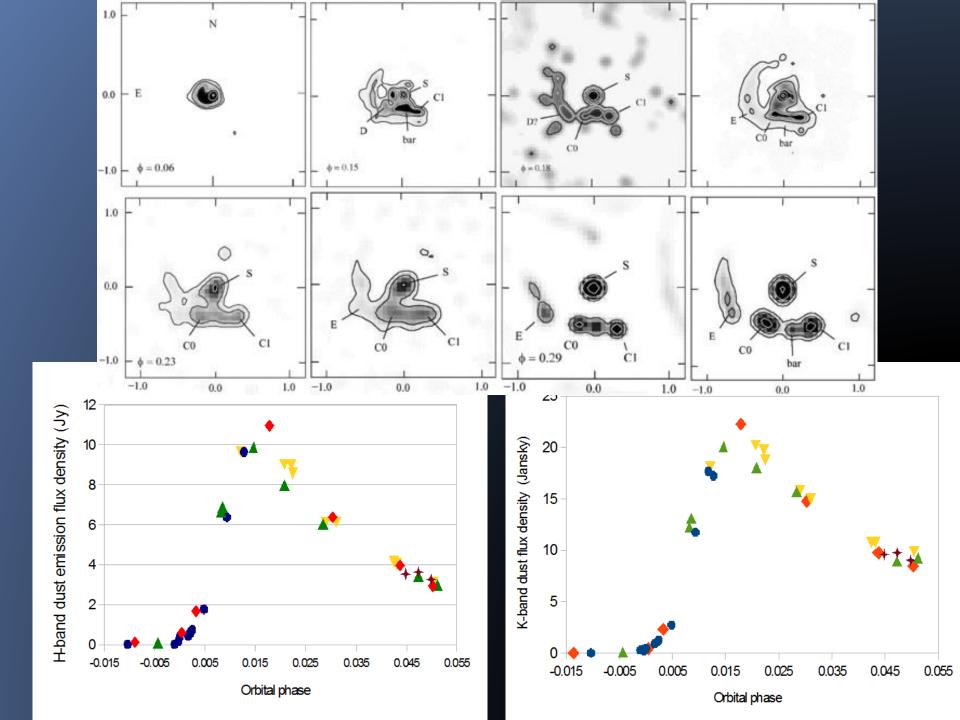
Next to be done with CHARA: WR 140 (weather permitting)



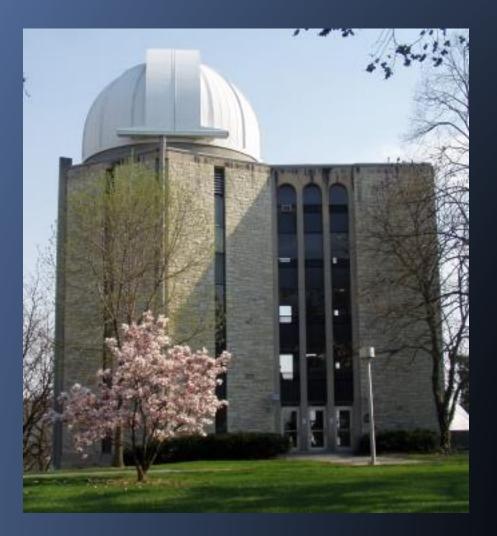


2016.9 periastron passage

Monnier et al. (2011)



Collaboration with Ritter Observatory – open to all



- 1-m telescope
- echelle spectrograph (R~26,000)
- spectropolarimeter (resolution ~7A)
- operates every clear night with large observing team (~5 grad students, ~20 undergrads)
- observations can be scheduled as soon as the night requested

Thank you!