**X-rays are seen in Cepheids at phases after maximum radius**

**Mechanism: Pulsation shock? Flare?**

**May be part of a progression outward from the photosphere: X-rays (0.13 \( R_{\text{star}} \)), Circumstellar Envelopes (CSEs 2 \( R_{\text{star}} \)), Bowshock**

**Questions: Mass-loss? IR effects?**

**Radio Observations: winds or flares?**

So far probably not deep enough