

A Superorbital Modulation connecting the quiescent states of A0620-00



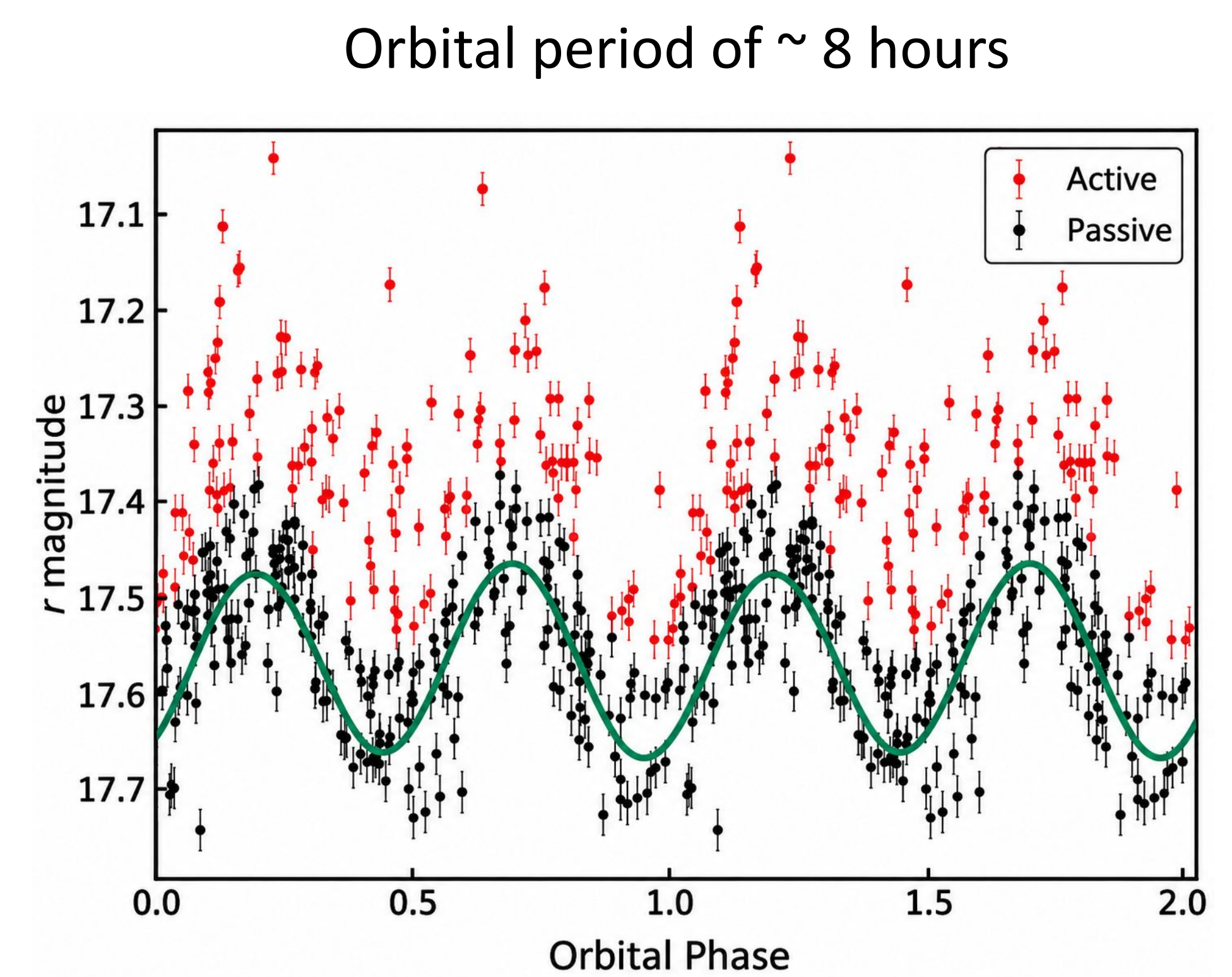
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Quiescent states of the black hole low-mass X-ray binary A0620-00

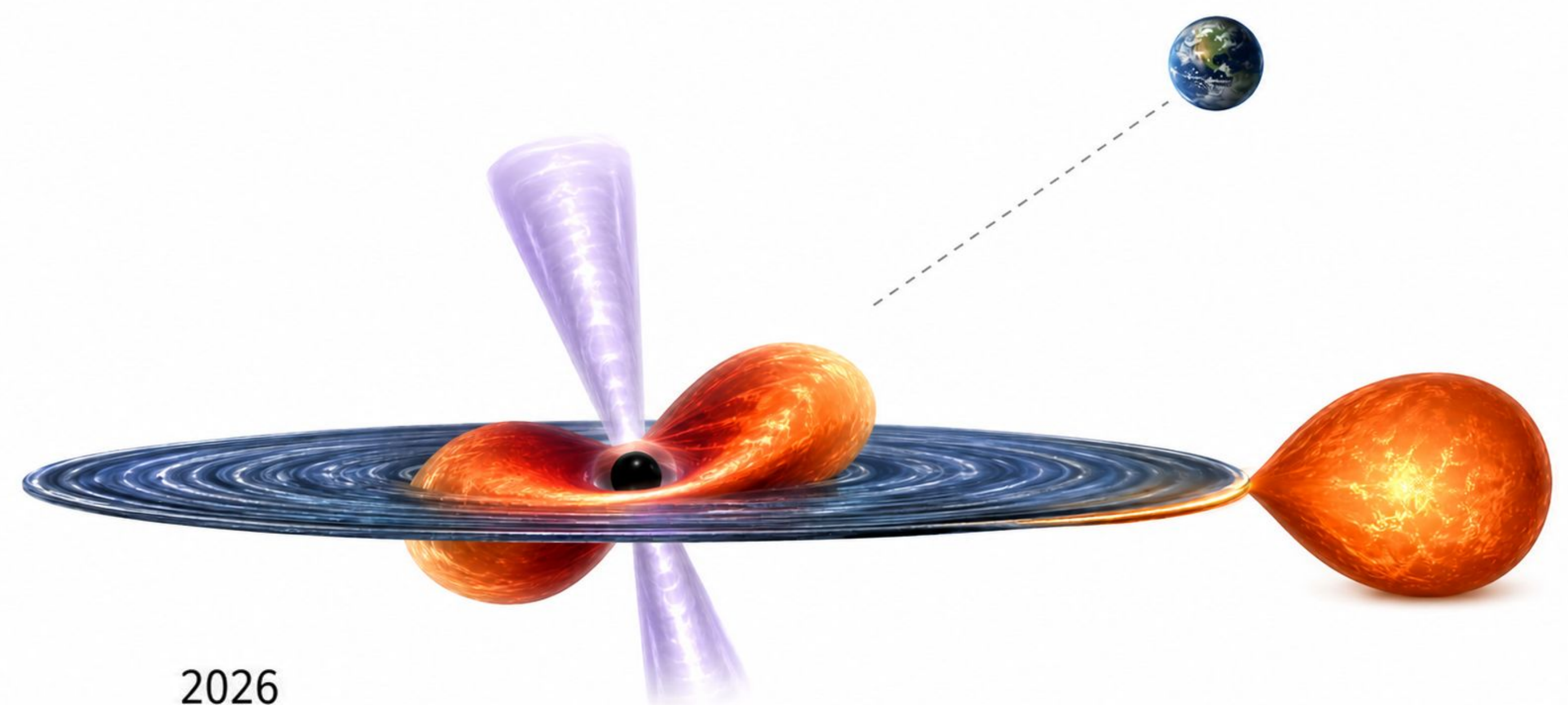
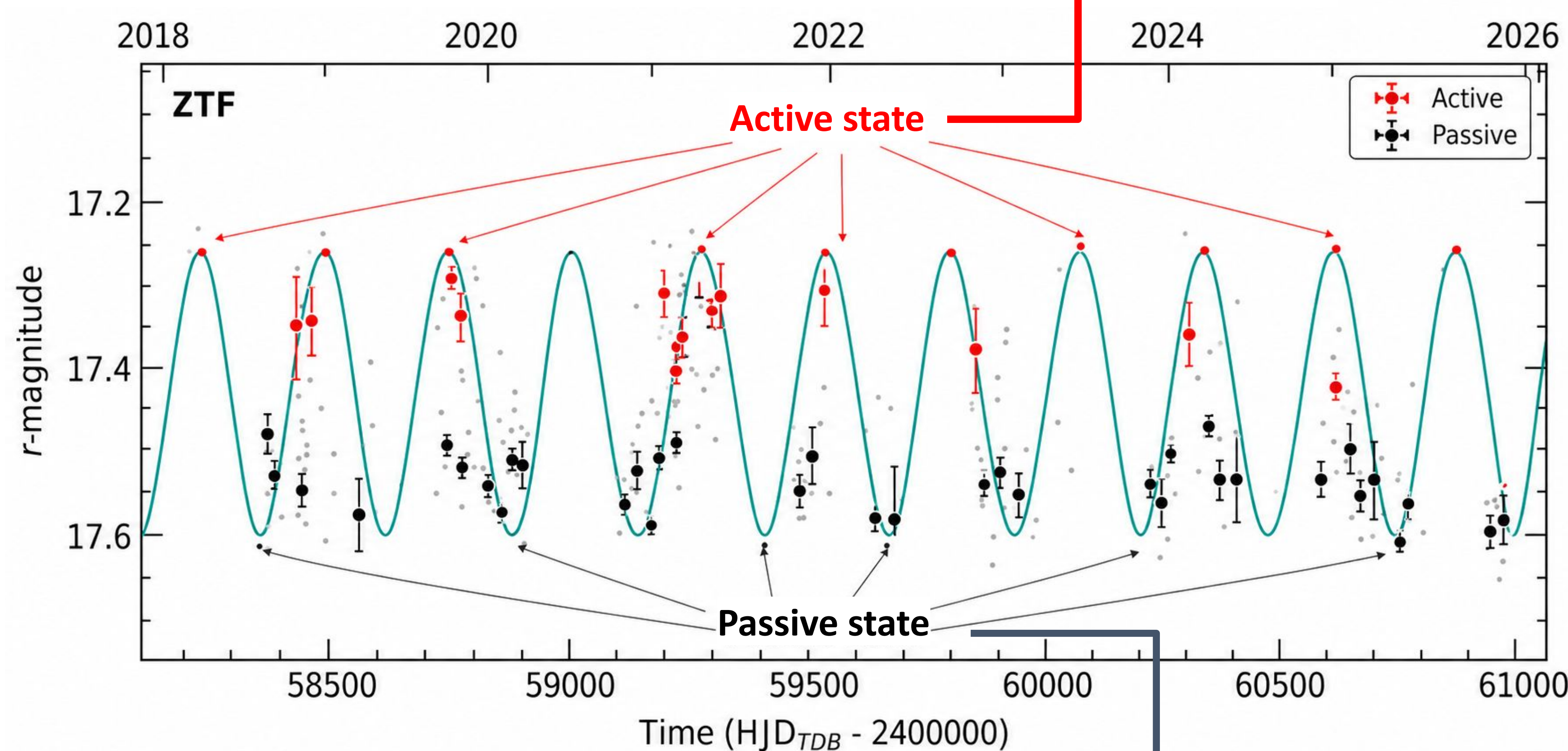
- **Passive state:** dominated by the ellipsoidal modulation of the donor star.
- **Active state:** an increased mean flux with aperiodic flickering and significant colour variability.

Cantrell et al. 2008, 2010

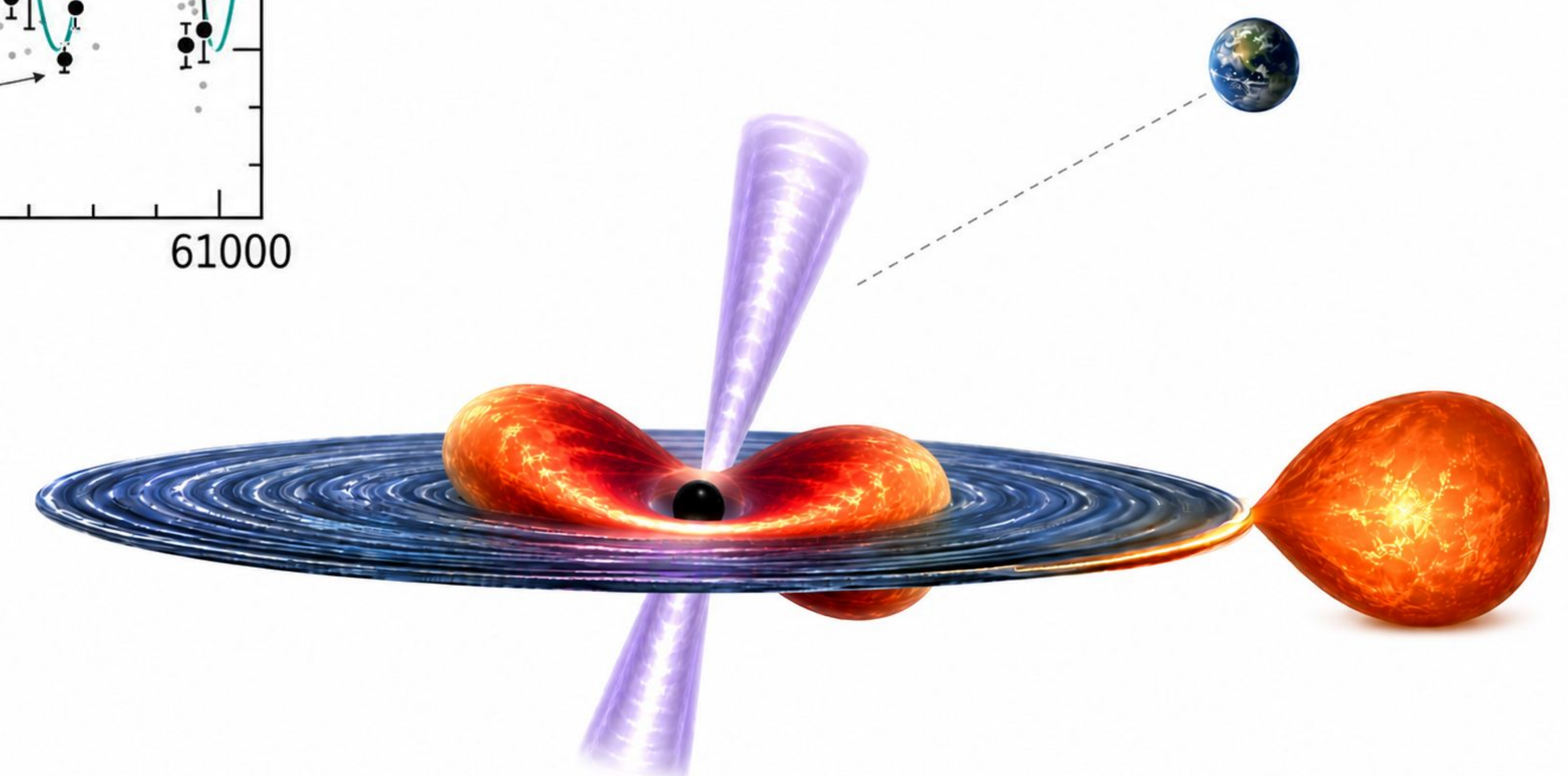


Identifying a cycle with a period of 262 ± 9 days

THEIR OCCURRENCE DEPENDS
ON SUPERORBITAL PHASE



Our proposal:
Nodal precession
of a hot inner flow



Alternative physical explanations?

Let's talk!

The paper!

Saavedra et al. (2026),
forthcoming A&A
arXiv:2607.16397

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