Infrared variability and time lags for periodic quasars

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left: CRTS (blue), WISE (yellow/red) light curves for PG1302-102, right: binary SMBH (credit: NASA)

\[ \tau_{W1} = (335 \pm 153) + 1884n \]
\[ \tau_{W2} = (524 \pm 148) + 1884n \]

-dust torus geometry

\[ \tau = R \left( 1 + \sin i \right)/c + T/2 \]
\[ R \approx R_{\text{sub}} \]

-110 light curves to come