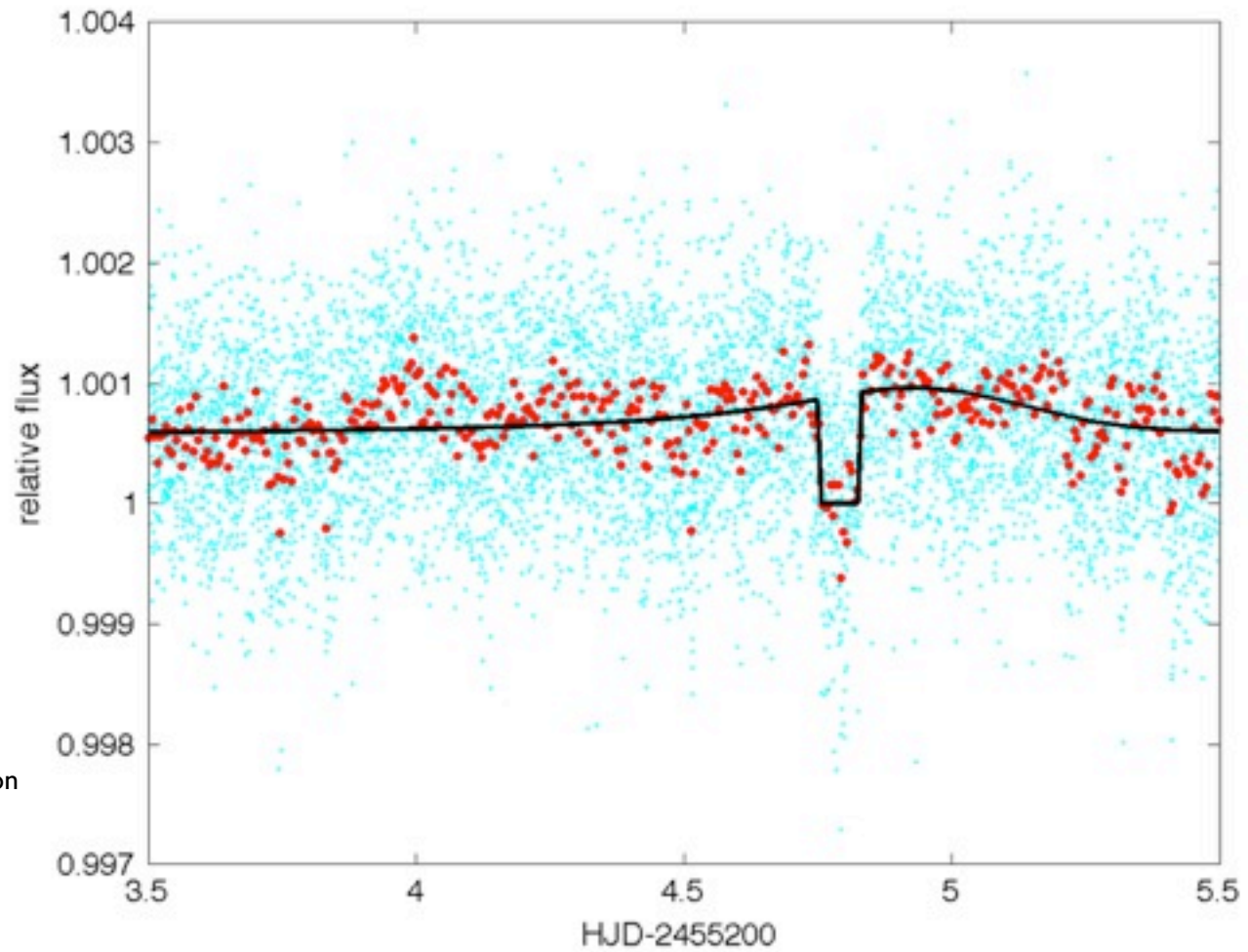
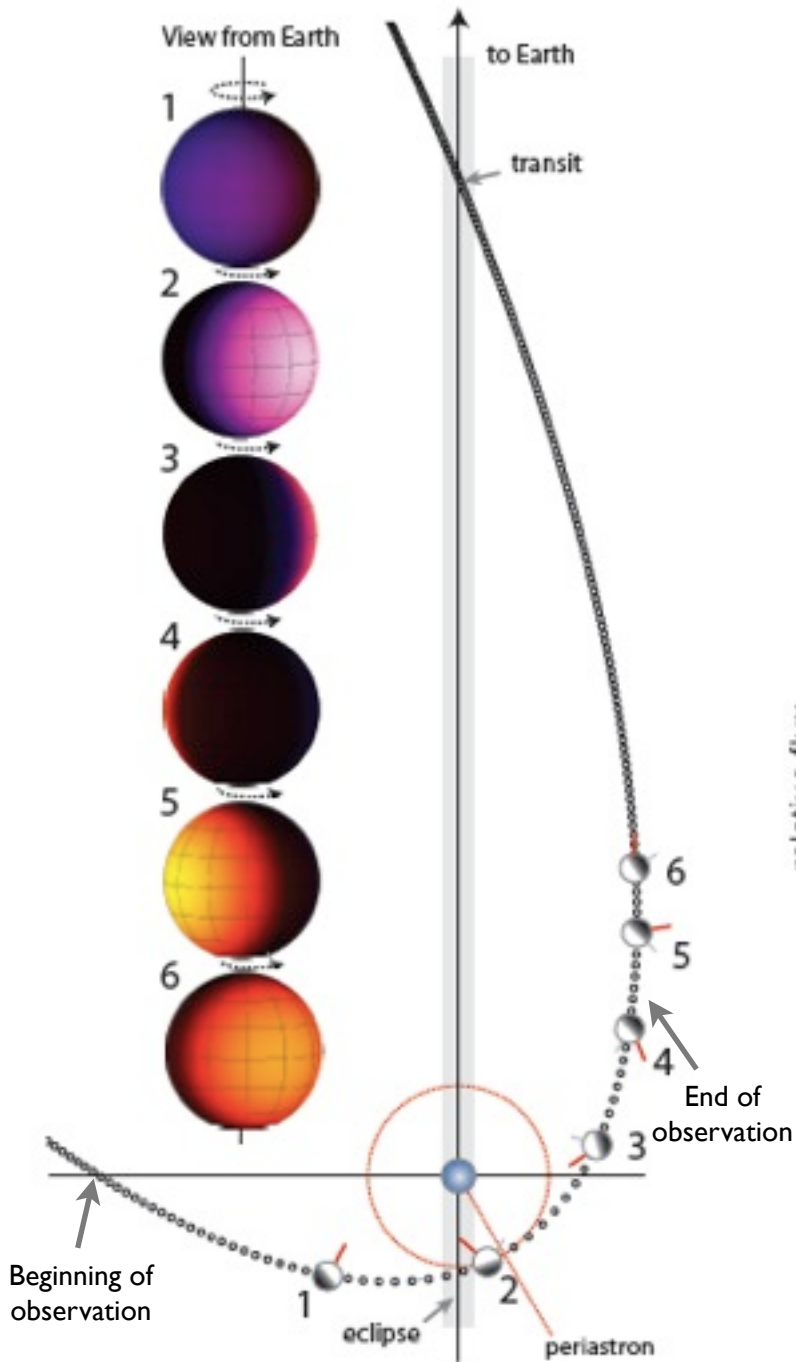


New Photometry for the Extremely Eccentric Giant HD 80606 b

Jonathan Langton
Greg Laughlin
Konstantin Batygin
Drake Deming
Jonathan Fortney
Nicolas Iro
Daniel Kasen

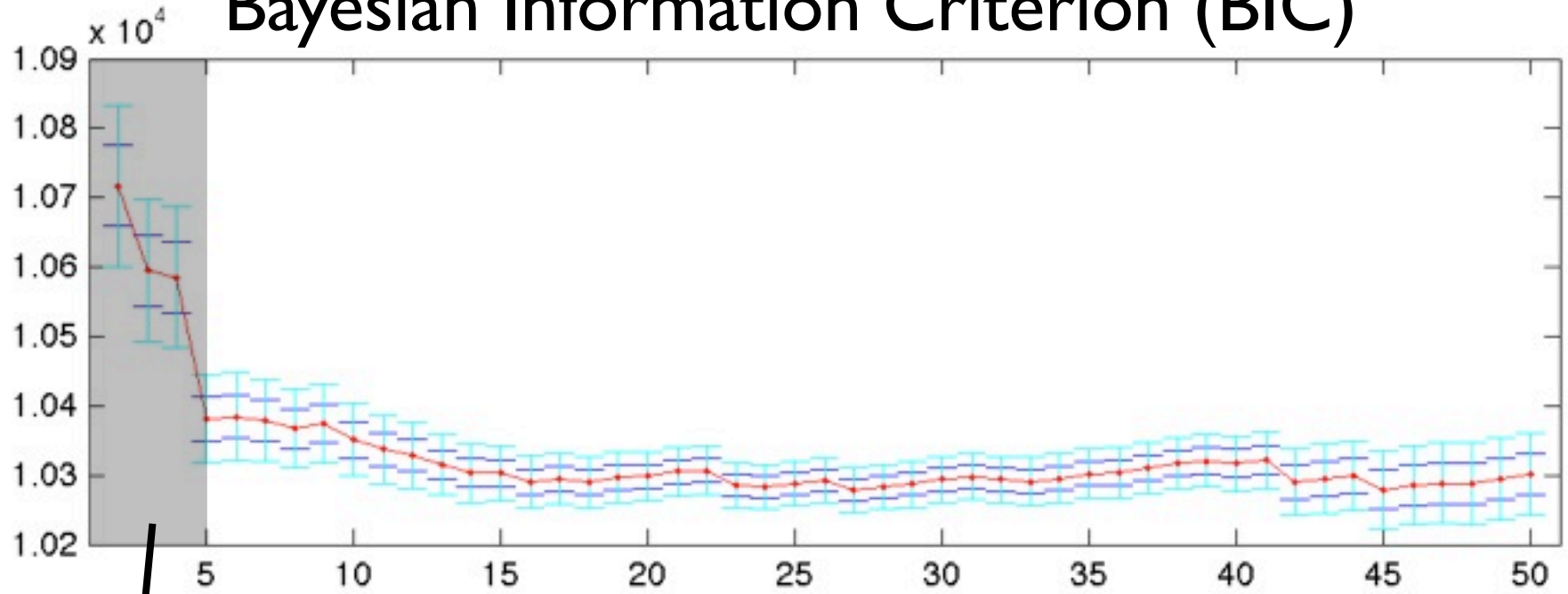
HD 80606 b: Orbital Geometry and Photometry



HD 80606 b Photometry: The Movie

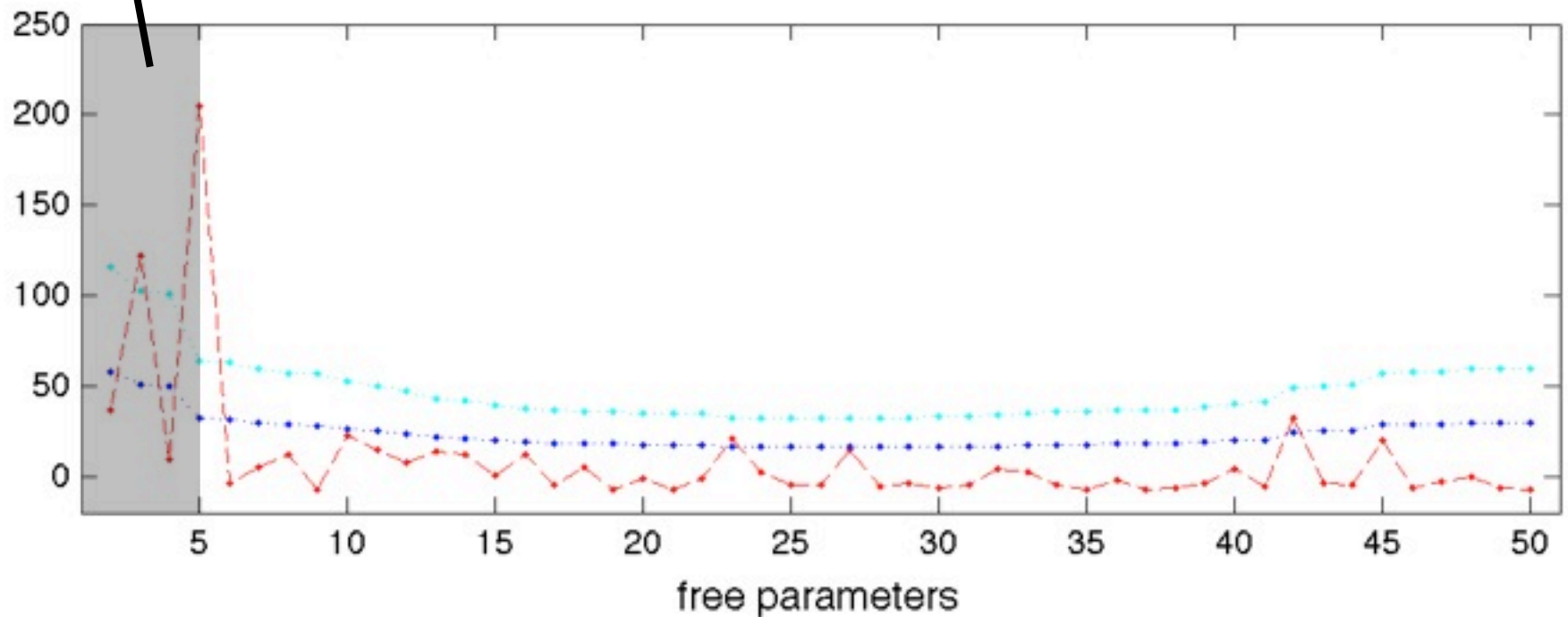


Bayesian Information Criterion (BIC)



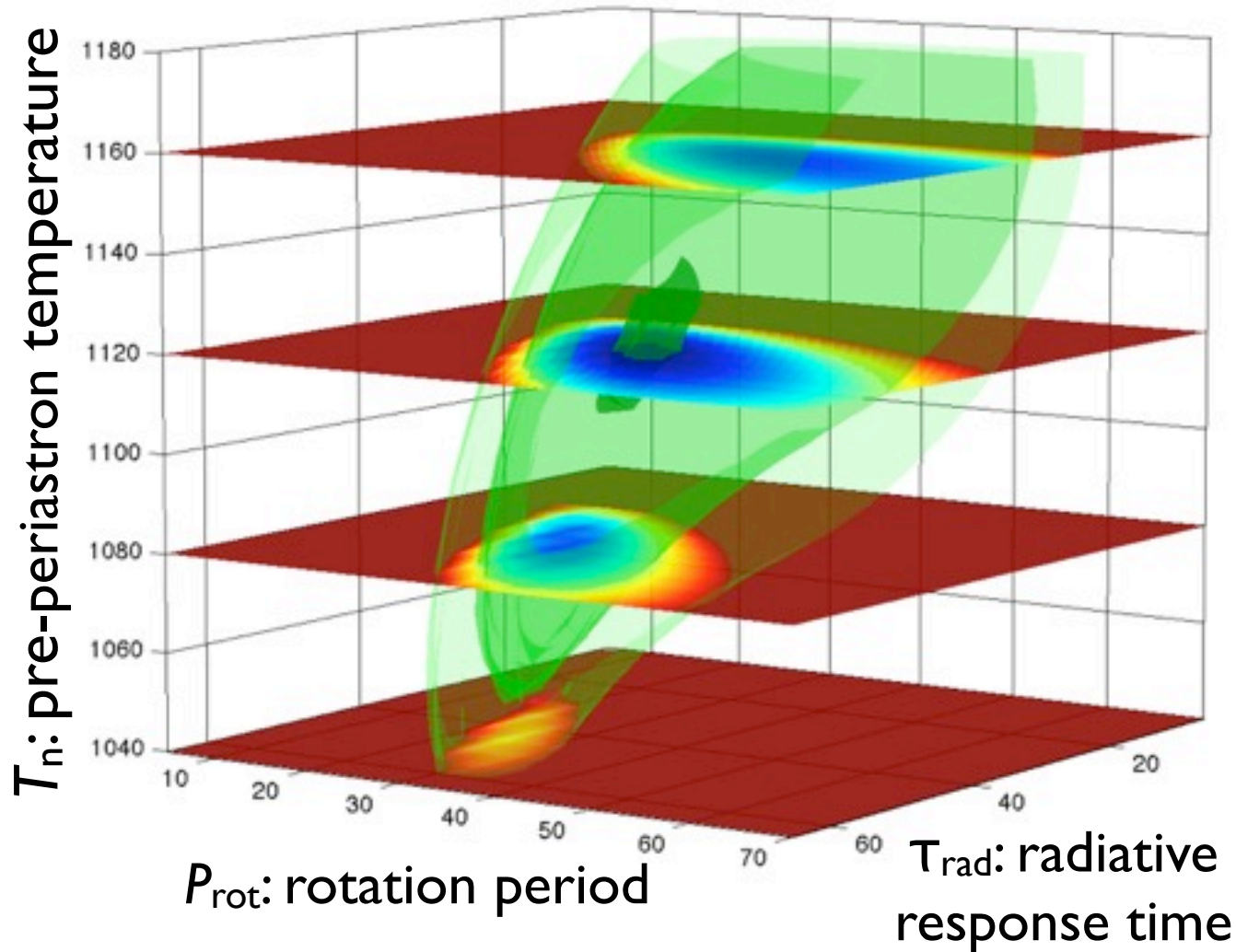
Allowable number
of free parameters

$\Delta(\text{BIC})$



free parameters

Model fit to photometry: χ^2 isosurfaces



Best fit:

$$T_n = 1120 \text{ K}$$

$$P_{\text{rot}} = 39 \text{ h}$$

$$\tau_{\text{rad}} = 35 \text{ h}$$

2σ confidence intervals:

$$T_n > 1030 \text{ K}$$

$$P_{\text{rot}} > 20 \text{ h}$$

$$20 \text{ h} < \tau_{\text{rad}} < 60 \text{ h}$$