Calculating the Transit of HD209458b

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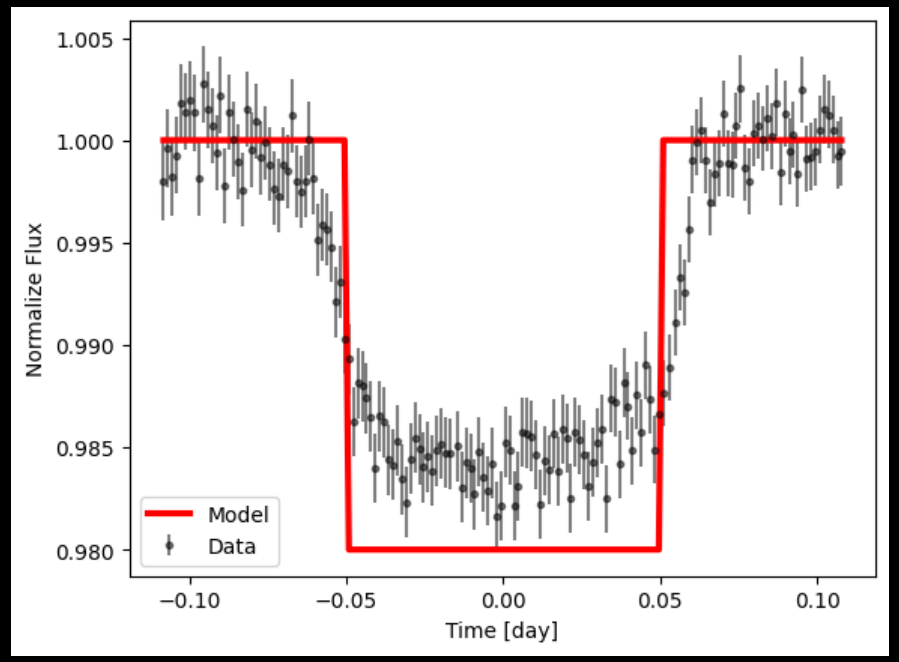
Motivation

Calculate the radius and transit period for HD209458b as it passes in front of its start

Methods

- Upload data points and plot them
- Add a box model to original data
- Y axis is normalization flux
- X axis is time in days



Results

We use the delta flux and the stars radius to calculate the radius

Conclusion

- The planet takes 3.5 days to orbit its star causing high temperatures
- Hydrogen boils off as it orbits its star