
ephesos Documentation

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INTRODUCTION

A large fraction of light sources in the sky is time-variable. Their variability contains valuable information about their nature.

Ephesos photodynamically calculates the total brightness of a system of stars, compact objects, planets, and moons as a function of time. The stars can potentially have time-variability due to stellar magnetism in the form of spots, faculae, and flares. It can model photometric, radial velocity, and astrometric time-series data typically collected in astronomy.

Ephesos derives its name from the ancient city of Ephesos on the western coast of Anatolia.

2.1 Modeling a transiting hot Jupiter

2.2 Modeling a black hole transiting a Sun-like star

CHAPTER
THREE

API