PHOEBE WORKSHOP 7

PHysics Of Eclipsing BinariEs

Yunnan University Astronomical Observatory, China.
https://phoebe-project.org/workshops/2025aug

FIRST ANNOUNCEMENT:

The PHOEBE team is delighted to announce the seventh **PHOEBE Workshop** that will take place 4th–15th August 2025 in-person at Yunnan University Astronomical Observatory, Kunming, China.

SCIENTIFIC RATIONALE:

PHOEBE 2 is a binary star modeling suite that includes advanced methods for stellar surface discretization; photospheric surface mapping of gravity darkening and limb darkening (which replaces the parameterized form); support for spin-orbit misalignment; an extensive fitting suite; and many more features. In addition to this vast array of improvements, the user interface has also been updated and is now based on the python programming language.

The participants of the workshop will cover introductory walk-through tutorials to PHOEBE 2 and will acquire hands-on experience with creating and fitting binary star models. This is a two-week workshop where participants will learn about solving the inverse problem with PHOEBE using heuristics and probabilistic inference.

MAIN OBJECTIVES:

By the end of this workshop, participants should be able to independently use PHOEBE 2 to model single stars and basic binary systems, have a working knowledge of some advanced features, and have scripts to apply PHOEBE 2 to their own data.

IMPORTANT DATES:

Registration deadline: 30th April 2025
Notification of selection: 7th May 2025
Meeting dates: 4th–15th August 2025

WEBSITE:

Further details can be found at:
https://phoebe-project.org/workshops/2025aug

REGISTRATION AND FEES:

This workshop is primarily intended for upper-level undergraduate and graduate students, postdocs and early career scientists. Registration is a flat fee of ¥2000 ($270); its organization is sponsored in-part by the Yunnan Observatories of the Chinese Academy of Sciences, Yunnan University and Villanova University. The number of participants is limited to 40. Selection is on a first-come first-serve basis. Those interested are invited to fill out the registration form on the workshop website (https://phoebe-project.org/workshops/2025aug/registration). Fee waivers for both registration and accommodation are available for participants from South and Southeast Asian countries, upon request. To request a fee waiver, please contact zhuly@ynao.ac.cn.

TECHNICAL REQUIREMENTS:

Participants are kindly asked to install PHOEBE 2 on their laptops prior to the workshop (https://phoebe-project.org/install) and to be able to successfully import PHOEBE from within a python environment.

ORGANIZING COMMITTEE:

SOC: Kelly Hambleton (SOC Chair: kelly.hambleton@villanova.edu); Kyle Conroy; Michael Abdul-Masih; Marcin Wrona; Matthias Fabry; Liying Zhu; Sheng-Bang Qian; Andrej Prša.
LOC: Liying Zhu (LOC Chair: zhuly@ynao.ac.cn); Liang Liu; Wenping Liao; Jia Zhang; Ergang Zhao; Linjia Li; Jiajia He; Xiangdong Shi; Nianping Liu; Xiao Zhou; Fuxing Li; Qibin Sun; Wenxu Lin.