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Stellar Pulsation studies

Pulsating stars offer a window to look into key aspects of stellar evolution and also serve as a tool (especially Cepheids) to distance scale measurements. Their ubiquitous nature can reveal a lot about the structure and evolution of our Galaxy and the Magellanic Clouds. In this talk, I will discuss two important classes of pulsating stars, Cepheids and RR Lyrae, in general, and then dive into a photometric study of pulsations conducted on Cepheids in our galactic disk and bulge using the OGLE-IV survey data. Also, I will discuss how stellar evolution modeling can aid the goals of the research. In the end, I will briefly introduce the long term goals of the doctoral study.

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