

Piotr Wielgórski - Type II Cepheids as precise distance indicators

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The goal of my PhD project is calibration of two methods of measuring distances with Type II Cepheids as indicators. These old population stars are less luminous and not so stable as their famous young population counterpart- Classical Cepheids, however they can be used to determine distances of dwarf galaxies and globular clusters, where Classical Cepheids are not observed. I am going to use parallaxes of a sample of 40 nearby Type II Cepheids determined by the Gaia mission and photometric and spectroscopic observations performed in the Cerro Armazones and La Silla Observatories to calibrate period-luminosity relation and p-factor from the Baade-Wesselink method for these stars. In my talk I will present preliminary results.

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