

Modelling of Spectral Energy Distribution from Protoplanetary Disk of IRAS 22150+6109

Monday, 23 December 2019 18:15 (5 minutes)

We present the result of modelling of spectral energy distribution of the infrared source IRAS 22150+6109. The object emits an excess of radiation in far infrared band. It was interpreted to be a young massive pre-main-sequence star and the protoplanetary disk on late stage. We use radiative transfer code RADMC-3D for the simulations of spectral energy distribution. The code itself implements the Monte-Carlo ray tracing method with spherical grid fragmentation. We performed simulations and obtained best-fit parameters for the model of the protoplanetary disk. The investigation of such objects will help to understand protoplanetary disks emission better.

Primary authors: BILINSKYI, Illia (Taras Shevchenko National University of Kyiv, Akademika Hlushkova Ave, 4, Kyiv, Ukraine, 03022); ZAKHOZHAY, Olga (Main Astronomical Observatory National Academy of Sciences of Ukraine); Dr BERCZIK, Peter (Main Astronomical Observatory National Academy of Sciences of Ukraine)

Presenter: BILINSKYI, Illia (Taras Shevchenko National University of Kyiv, Akademika Hlushkova Ave, 4, Kyiv, Ukraine, 03022)

Session Classification: Poster session

Track Classification: Astrophysics and Cosmology