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A Unified Model of the Emission, Extinction, and Polarization of Interstellar Dust

Monday, 11 June 2018 17:13 (1 minute)

We present a new model of interstellar dust composed of silicates, graphitic carbonaceous grains, and polycyclic aromatic hydrocarbons that reproduces the wavelength dependence of dust extinction (total and polarized) and emission (total and polarized) in the diffuse interstellar medium from UV to microwave wavelengths. In this talk, I will focus on the use of new observational data, particularly from the Planck satellite, to place constraints on the optical properties and shapes of interstellar grains. I will also discuss the key differences between this model and the Draine and Li 2007 model.

Consider for a poster?

Yes

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