
Completeness of sample for faint reddened stars

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Abstract

Star forming regions are plagued with reddening and uncertainties in proper motion and distance that become significant already at the distance of Orion (~ 400 pc) even in the GaiaDR2 era. In this short presentation I would like to present a study of an assessment of completeness of sample using E(B-V) maps such as the PAN-STARRS cube. Using the randomness of Fourier modes and age uncertainties for the embedded stars, I find that $\approx 20\%$ of stars may yet be missing.

Keywords: stars, multiple stars, extinction maps, ISM

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