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Kepler and Gaia DR2 views of open cluster NGC 6819

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In this work we derive the distance modulus from Gaia parallaxes for Kepler Input Catalogue (KIC) stars located within 10 arcmin in the field of NGC 6819. The mean distance modulus is used to determine probable new KIC members of NGC 6819 cluster. We find 7 probable KIC new astrometric distance members which have been previously overlooked in the literature as revealed by Gaia Data Release 2 (DR2). Of these, one is a solar-like star (SOLR), one γ Dor star (GDOR), 2 rotational variables, 1 eclipsing binary and 2 unknown types. There is no significant difference in the mean distance modulus when probable new astrometric members are included in deriving the mean distance modulus.

Apply to be considered for a student ; award (Yes / No)?

No

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