



Contribution ID: 39

Type: **Contributed e-poster**

## Gaps in the Main-Sequence of Star Cluster HR Diagrams (poster pitch)

The presence of gaps or regions of small numbers of stars in the main sequence of the Hertzsprung Russell Diagram (HRD) of star clusters has been reported in literature. This is interesting and significant as it could be related to star formation and/or rapid evolution or instabilities. In this paper, using Gaia DR3 photometry and confirmed membership data, we explore the HRD of nine open clusters with reported gaps, identify them and assess their importance and spectral types.

**Primary author:** SHAH, Priya (Maulana Azad National Urdu University, Hyderabad)

**Presenter:** SHAH, Priya (Maulana Azad National Urdu University, Hyderabad)

**Session Classification:** WG2. The Life and Death of Stars (III). Chair: André Moithino.