



Contribution ID: 49

Type: **Poster**

I-Process nucleosynthesis in interacting binaries

We investigate the possibility that i-process nucleosynthesis could be activated in the evolution of interacting binaries with a CO WD and a He-rich donor. In this systems the main neutron source is the $^{22}\text{Ne}(\alpha, n)^{25}\text{Mg}$ reaction occurring during recurrent He-flash episodes triggered by mass transfer. We also discuss the potential contribution of these systems to the galactic chemical evolution budget.

Primary author: PIERSANTI, Luciano (Istituto Nazionale di Astrofisica (INAF) - OAAb)

Co-authors: VESCOVI, Diego (INAF - Osservatorio Nazionale d'Abruzzo); Prof. YUNGELSON, Lev (Institute of Astronomy of the Russian Academy of Sciences); CRISTALLO, Sergio (INAF - Osservatorio Nazionale d'Abruzzo)

Presenter: PIERSANTI, Luciano (Istituto Nazionale di Astrofisica (INAF) - OAAb)