

Dr. Elena Rasia (Tržaški astronomski observatorij) bo na tokratni astrodebati predstavila **delovanje povratnega učinka aktivnih galaktičnih jeder na jatni plin**

. Predavanje bo v

sredo, 24. maja, ob 12. uri v predavalnici F4

na Jadranski 19, Fakulteta za matematiko in fiziko, Univerza v Ljubljani. Predavanje bo v angleščini. Vljudno vabljeni!

Povzetek:

Hydrodynamical simulations: AGN feedback and its influence on the ICM of Galaxy Clusters

Powerful phenomena determine the energy of Galaxy Clusters from sub-pc scales to Mpc distances. Via high-resolution, cosmological and hydrodynamical simulations we study how the main properties of the ICM (entropy, temperature, pressure, and metallicity) are influenced by the presence of the central AGN. We compare the results from runs with AGN feedback with those with "exclusively" stellar feedback to enhance the importance of the powerful AGN source. We found that the AGN are key to create the observed metal profile and to produce clusters which are cool cores. Observationally, cool-core clusters have precise physical characteristics: they are found in regular clusters with a symmetric and peaked surface brightness distribution and have a peaked metal profile. Our numerical models are able to reproduce most of the observed properties, thus can be used to derive some predictions on the evolution of these systems.

Vir: [Astrodebata](#)