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## Special Guest Lectures

**Metal enrichment of the intra-cluster medium over a Hubble time for merging and relaxed galaxy clusters****Wolfgang Kapferer, University of Innsbruck**

Institute for Astro -and Particlephysics

Johnston Hall 338

February 14, 2007 - 02:00 pm

**Abstract:**

The plasma between the galaxies in a galaxy cluster - the intra-cluster medium (ICM) - does not only contain primordial elements, but also heavy elements like Fe, Si, S or O. From X-ray observations the overall metal abundance is known to be  $1/3 - 1/2$  solar. As heavy elements are only produced in stars, the processed material must have been transported from cluster galaxies into the ICM. Possible transport processes are ram-pressure stripping, galactic winds, galaxy-galaxy interactions or outflows from active galactic nuclei. In this talk results from combined N-body/hydrodynamic simulations together with a galaxy formation model and their comparison with observations will be presented.

**Speaker's Bio:**

Wolfgang Kapferer studied physics and astronomy at the University of Innsbruck, Tyrol, Austria. After his PhD in computational astrophysics at the Institute for Astro -and Particlephysics he is now working in the Hydro-Ski Team (<http://astro.uibk.ac.at/hydroskiteam/index.htm>) (Institute for Astro -and Particlephysics, University of Innsbruck), which investigates the evolution of the largest bound systems in the universe, galaxy clusters. Besides his research he is highly interested in visualisation of simulated data. Together with Werner Benger he has organized therefore several Workshops on the topic of High End Visualization.

