

## ASTROPHYSICS SEMINAR

Thursday, 15 September 2011 at 11:00

# The current processes of structure formation through merging and accretion on galaxy clusters

**Dominique Eckert**

ISDC Data Centre for Astrophysics, Geneva

**Abstract.** Large-scale structures in the Universe form hierarchically through merging and accretion of smaller structures. As the largest gravitationally-bound structures in the present Universe, galaxy clusters are the objects where the current processes of structure formation take place. During this seminar, I will present some of the recent progress in our understanding of these processes. In particular, I will concentrate on the effects of major merging events on the general properties of galaxy clusters, such as their core properties, shocks, particle acceleration and cold fronts. I will also focus on the growth processes of galaxy clusters through accretion of small-scale structures (galaxies, groups) onto massive clusters.

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### Additional Information

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The seminars are given in the ISDC "Pavillon" building  
Address: ISDC Data Centre for Astrophysics, ch. d'Écogia 16, CH-1290 Versoix  
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