

Growing up at high redshift: from proto-clusters to galaxy clusters

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European Space Astronomy Centre (ESAC)

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11 billion years ago

CL J1449+0856 $z=2.1$ (Gobat et al 2011)

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TOPICS

Efficient techniques to search for high- z clusters
(X-rays, SZ, IR/optical)

Thermal and non-thermal emission from the (proto) cluster gas

Evolution of galaxy populations in high-density
environments in contrast with the field

How is the build up of proto-clusters related to the peak of
star-formation activity and black-hole accretion?

The role of feedback in the transition from high- z overdensities
to low density regions in the local Universe

Properties of the most distant clusters and proto-clusters

The impact of the most massive clusters on Cosmology

9 billion years ago

XMMU J2235.3-2557 $z=1.4$ (Rosati et al 2009)



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<http://www.sciops.esa.int/index.php?project=CONF2011&page=CLUSTERS2012>

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