
ID contributo: **19** Tipo: **non specificato**

# The tumultuous evolution of a galaxy cluster captured close to its emergence from the cosmic web.

*mercoledì 30 giugno 2021 16:05 (30 minuti)*

I will present the resolved thermodynamic of the most distant cluster for which such a measurement has ever been performed, IDCSJ1426 at z=1.75, which turned out also to be the more precise measurement for every high redshift cluster thanks to our joint use of both X-ray and SZ data. Profiting of the largest ever redshift baseline, I determined the evolution of the thermodynamic profiles of this cluster down to z=0.07, our reference local comparison sample, with unprecedent precision over a 10 Gyr baseline. In the talk, I will also introduce a new definition of the evolutionary rate to effectively compare ancestors and descendants. It turned out to have the advantage of separating cluster evolution, dependence on mass, pseudo-evolution and to return a number with unique interpretation, unlike other definitions.

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