Iacopo Bartalucci



Education:

- PhD University Tor Vergata, Rome
- Post Doctorate 2014-19 CEA Saclay, ERC Fellow, PI Monique Arnaud
- Post Doctorate 2019-Today Milan INAF-IASF

lacopo Bartalucci - Past activity

Science Themes

- Galaxy clusters
 - Thermodynamical properties at high z and in their outskirts
 - Evolution

Methods

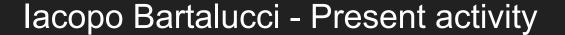
- Chandra & XMM/Newton
- Combining high resolution X-Ray and SZ observations (NIKA2)



 $S_X \propto (1+z)^{-4}$







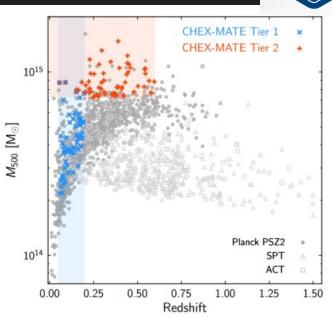
ÉCOLE

Aims:

Defining a local reference sample for cluster evolution studies

Method:

Studying the properties of 118 clusters selected with Planck and observed by XMM

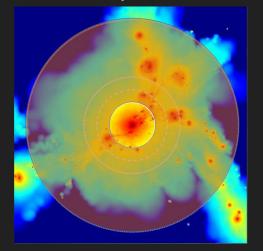


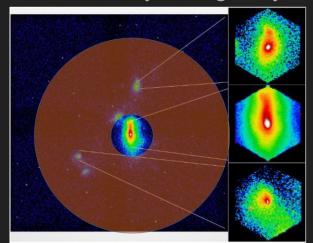
lacopo Bartalucci - Context of Athena



Testing the observational capabilities of X-IFU and WFI for very faint galaxy

cluster outskirts





Aim at the school : characterising thermodynamic properties of outskirts with X-IFU

Alexei Molin



Education:

M2 - Master student Observatoire de Paris
 "Design of an X-ray collimator for the future calibration of X-IFU and the investigation of observation of gravitational redshift with X-IFU" under the supervision of Francois Pajot and Etienne Pointecoteau (IRAP)



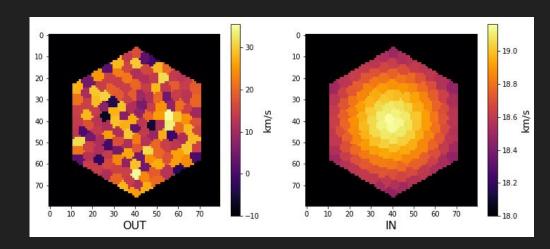


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- Galaxy clusters
 - dynamical properties: the mass

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 Observations of gravitational redshift with X-IFU





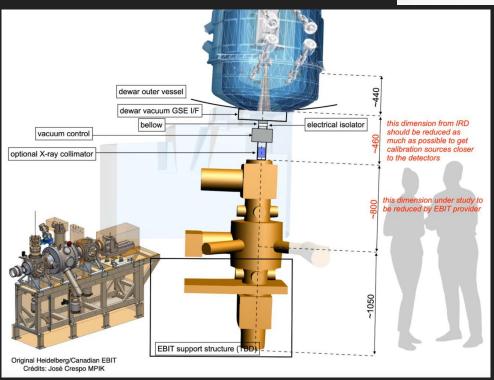


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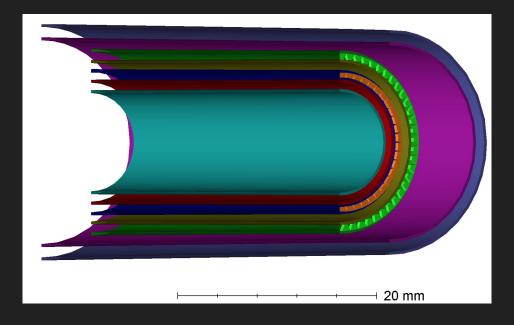


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Alexei Molin - Context of Athena



Future perspectives:

Continuing collimator design and possibly test it in reality at IRAP with Francois and Etienne

Hands on experience in Athena X-IFU data analysis