Galaxy Clusters as Giant Cosmic Laboratories – Programme

Monday, 21 May 2012

09:00		Registration		
09:50	Schartel: Opening Remarks			
<u>Sessic</u> Chair:		Dynamical and Thermal Structure of Galaxy Clusters and their ICM		
10:00	Sanders: 1	anders: The thermal and dynamical state of cluster cores		
10:30	Ohashi: X-	Ohashi: X-ray study of clusters at the outer edge and beyond		
10:45	<i>Eckert:</i> Th	<i>Eckert:</i> The gas distribution in galaxy cluster outer regions		
11:00	Molendi: Extending measures of the ICM to the outskirts: facts, myths and puzzles			
11:15	Sato: Temperature, entropy, and mass profiles to the virial radius of galaxy clusters with Suzaku			
11:30- 12:00	Coffee Break & Poster Viewing			
Sessio	<u>on II</u> Altieri	Dynamical and Thermal Structure of Galaxy Clusters and their ICM		
Chair:		Cluster Mass Determination		
12:00	Ettori: Clu	ster mass profiles from X-ray observations: present constraints and limitations		
12:30	Russell: Shock fronts, electron-ion equilibration and ICM transport processes in the merging cluster Abell 2146			
12:45	ZuHone: Probing the Microphysics of the Intracluster Medium with Cold Fronts in the ICM			
13:00	<i>Rossetti:</i> Challenging the merging/sloshing cold front paradigm with a new XMM observation of A2142			
13:15	Nevalainen: Bulk motion measurements in clusters of galaxies using XMM-Newton and ATHENA			
13:30- 15:00	Lunch			
Sessio		Dynamical and Thermal Structure of Galaxy Clusters and their ICM		
Chair:	de Grandi	Cluster Mass Determination		
15:00	Mahdavi: Multiwavelength Constraints on Scaling Relations and Substructure in a Sample of 50 Clusters of Galaxies			
15:30	Pratt: Galaxy cluster mass profiles			
15:45	<i>Biffi:</i> Observing simulated galaxy clusters: the prospects of velocity diagnostics of the ICM			
16:00	<i>Bogdan:</i> Exploring the dynamics of A194			
16:15	<i>Lyskova:</i> A simple recipe for estimating masses of elliptical galaxies and clusters of galaxies			
16:30- 17:00	Coffee Break & Poster Viewing			
<u>Sessio</u>		Cluster Mass Determination		
Chair:	Viana	Cluster Scaling Relation with Emphasis on X-rays		
17:00	Hoekstra:	Cluster masses from weak lensing measurements		
17:30	Maughan: The X-ray Scaling Properties of Galaxy Clusters			
18:00	Aguerri: Fossil Groups Origins (FOGO) project: X-ray scaling relations of fossil systems			
18:15	Lovisari: Scaling relations with a complete sample of galaxy groups			
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18:30	End of Ses			

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Tuesday, 22 May 2012

<u>Session V</u> Chair: Durret		AGN Feedback in Clusters		
09:00	McNamara: AGN Feedback in Clusters			
09:30	Nulsen: AGN feedback in clusters: the feedback cycle			
10:00	<i>Voit:</i> Triggering of AGN Feedback			
10:15	<i>Soker:</i> The	cold feedback mechanism		
10:30	Planelles: On the role of AGN feedback on the baryon content of galaxy clusters			
10:45	Hilton: Evolution of the X-ray luminosity-temperature relation from the XCS first data release			
11:00- 11:30	Coffee Break & Poster Viewing			
<u>Sessic</u> Chair: I	o <u>n VI</u> Pedersen	AGN Feedback in Clusters		
11:30	<i>Edge:</i> The	Herschel view of clusters of galaxies		
12:00	Hardcastle: The environmental impact of powerful radio galaxies in groups and clusters			
12:15	Birzan: The Duty Cycle of Radio Mode Feedback			
12:30	Gaspari: Solving the Cooling Flow Problem through Mechanical AGN Feedback			
12:45	Pike: The Influence of Cooling and Feedback on Cluster Pressure Profiles			
13:00	Randall: Ini	Randall: Initial Results from a Very Deep Chandra Observation of the Galaxy Group NGC 5813		
13:15	<i>Killedar:</i> Th	e Role of AGN Feedback in Strong Lensing Predictions		
13:30- 15:00	Lunch			
<u>Session VII</u> Chair: Kaastra		Chemical Composition of the ICM		
15:00	Matsushita	: Metals in clusters of galaxies observed with Suzaku and XMM-Newton		
15:30	de Plaa: The origin of the chemical elements in cluster cores			
16:00	<i>Ueda:</i> X-ray Measurement of the Elemental Abundance at the Outskirts of the Perseus Cluster with Suzaku			
16:15	Ghizzardi: Metal jumps across sloshing cold fronts: the case of A496			
16:30- 17:00	Coffee Break & Poster Viewing			
Sessio		Comparison of X-ray, SZE and Optical Observations of Clusters		
Chair: I	Ponman	The Evolution of the Cluster Population with Redshift		
17:00	Pointecout	eau: Galaxy cluster detections in the PLANCK Survey		
17:30	Ineson: Radio loud AGN: is there a link between luminosity and cluster environment?			
17:45	Jones: Mergers and AGN Outbursts in Planck SZ and X-ray Selected Cluster Samples			
18:00	Sembolini: The Evolution of the Y-M scaling relation in MUSIC clusters			
18:15	<i>Giodini:</i> The smaller the better: X-ray groups as cosmic laboratories			
18:30	End of Session			
21:00	Conference Dinner			

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Wednesday, 23 May 2012

Session IX		Comparison of X-ray, SZE and Optical Observations of Clusters		
Chair:		The Evolution of the Cluster Population with Redshift		
09:00	<i>Rozo:</i> A Fully Self-Consistent Picture of Galaxy Cluster Abundances and Optical, X-ray, and SZ Scaling Relations at z=0.2			
09:30	Mohr: X-ray	Mohr: X-ray and Optical Observations of High Redshift SPT Selected Galaxy Clusters		
10:00	Takey: The	2XMMi/SDSS Galaxy Cluster Survey		
10:15	Mroczkowski: A Comparison of X-ray, Radio, and Lensing Results with GBT+MUSTANG Observations of the Sunyaev-Zel'dovich Effect			
10:30	Flores-Cacho: Detection and characterisation of the first Planck high-z candidates			
10:45	Owers: Galaxy Transformation in the Major merger Abell 2744			
11:00- 11:30	Coffee Break & Poster Viewing			
Session X		The Evolution of the Cluster Population with Redshift		
Chair: Forman		Galaxy Clusters as Cosmological Probes		
11:30	Zheng: Probing High-Redshift Galaxies through Cluster Lensing			
11:45	Kay: Sunyaev-Zel'dovich Clusters in Millennium Gas Simulations			
12:00	Borgani: Simulations to calibrate clusters for cosmology			
12:30	Santos: Deep Chandra observation of the galaxy cluster WARPJ1415.1+3612 at z=1: An evolved cool-core cluster at high redshift			
12:45	Viana: XCS:	iana: XCS: present status and latest results		
13:00	Pérez-Martínez: CL0024 as seen by the Galaxy Cluster Evolution survey (GLACE)			
13:15	de Hoon: Distant Galaxy Clusters in a Deep XMM-Newton Observation			
13:30- 15:00	Lunch			
<u>Session XI</u> Chair: Longinotti		The Evolution of the Cluster Population with Redshift		
		Galaxy Clusters as Cosmological Probes		
15:00	<i>Dolag:</i> Com	parison of Obervations and Simulations of galaxy clusters		
15:30	Röttgering: LOFAR surveys of the radio sky: probing shocks and magnetic fields in galaxy clusters			
16:00	Gu: Search for Galaxy-ICM Interaction in Rich Clusters of Galaxies			
16:15- 16:45	Coffee Break & Poster Viewing			
Session XII Chair: Stuhlinger		Non-thermal processes in clusters		
16:45	Kale: Disco	very of the first radio halo in a new Planck cluster confirmed by XMM Newton		
17:00	Sarazin: X-ray Observations of Shocks and Radio Emission in Abell 3667, Abell 665, Abell 2061, and the Cygnus-A Cluster			
17:15	<i>Ogrean:</i> CIZA J2242.8+5301: The galaxy cluster with the strongest merger shock			
17:30	Closing Remarks			
17:45	End of Meeting			