# SNOWCLUSTER 2013 SCHEDULE

**Sunday, March 24, 2013, 4:30-8pm**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title/Event</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:30-4:55</td>
<td>Julian Merten</td>
<td>Indications for self-interacting dark matter in galaxy cluster observations</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>4:55-5:20</td>
<td>Louis Strigari</td>
<td>Properties of satellite galaxies in cold &amp; warm dark matter models</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>5:20-5:45</td>
<td>Tommaso Treu</td>
<td>Astrophysical probes of dark matter from massive clusters to satellite</td>
<td>Ballroom 1</td>
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<td></td>
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<td>galaxies scales</td>
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<tr>
<td>5:45-6:05</td>
<td>Matthew Walker</td>
<td>Can Baryons Rescue Cold Dark Matter?</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>6:05-6:20</td>
<td>Michael Loewenstein</td>
<td>Search for light dark matter with X-rays</td>
<td>Ballroom 1</td>
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<tr>
<td>6:20-6:45</td>
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<td>Coffee Break</td>
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<tr>
<td>6:45-7:05</td>
<td>Esra Bulbul</td>
<td>Constraints on Dark Annihilation from the Stacked XMM-Newton Spectra</td>
<td>Ballroom 1</td>
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<td></td>
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<td>of Galaxy Clusters</td>
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<tr>
<td>7:05-7:30</td>
<td>Christian Reichardt</td>
<td>The 10-Meter South Pole Telescope: Unraveling The Mystery Of Dark Energy</td>
<td>Ballroom 1</td>
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<tr>
<td>7:30-7:55</td>
<td>Christof Pfrommer</td>
<td>Galaxy Clusters as Laboratories for Astroparticle Physics Clusters as</td>
<td>Ballroom 1</td>
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<tr>
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<td>Laboratories for Astroparticle Physics</td>
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<tr>
<td>8:00-10:00</td>
<td></td>
<td>Light Reception</td>
<td>Golden Cliff</td>
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<td>Ballroom</td>
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*Last updated, March 21, 2013*
## SNOWCLUSTER 2013 SCHEDULE

### Monday, March 25, 2013

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<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>7:00-8:00</td>
<td>Continental Breakfast</td>
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<tr>
<td>8:00-8:05</td>
<td>Maxim Markevitch</td>
<td>Welcome</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>8:05-8:30</td>
<td>Stefano Ettori</td>
<td>From X-ray observables to the total mass in galaxy clusters: biases, limitations, results</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>8:30-8:55</td>
<td>Andrey Kravtsov</td>
<td>Distribution of baryons in galaxy clusters</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>8:55-9:15</td>
<td>Max Bonamente</td>
<td>A cosmological value for the gas mass fraction from Chandra measurements</td>
<td>Ballroom 1</td>
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<tr>
<td>9:15-9:35</td>
<td>Adam Mantz</td>
<td>Cosmological constraints from X-ray gas mass fractions</td>
<td>Ballroom 1</td>
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<tr>
<td>9:35-10:05</td>
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<td>Coffee Break</td>
<td>Ballroom Lobby</td>
</tr>
<tr>
<td>10:05-10:25</td>
<td>Kaustuv Basu</td>
<td>Measuring the gas content of galaxy groups &amp; clusters from the thermal SZ effect power spectrum</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>10:25-10:50</td>
<td>Andi Mahdavi</td>
<td>Joint Analysis of X-ray &amp; Weak Lensing for the JACO/CCCP Cluster Sample</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>10:50-11:10</td>
<td>Elena Rasia</td>
<td>X-ray c-M relation: Theory &amp; Observations</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>11:10-11:30</td>
<td>Hao-Yi Wu</td>
<td>Halo profiles &amp; subhalo properties from a statistical sample of re-simulated cluster-size halos</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>11:30-11:50</td>
<td>Federico Sembolini</td>
<td>Exploring the SZ &amp; X-ray scaling relations with MUSIC clusters</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>11:50-12:10</td>
<td>Eli Rykoff</td>
<td>X-ray &amp; SZ Performance Benchmarks for redMaPPer Clusters</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>12:10-12:35</td>
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<td>Coffee Break</td>
<td>Ballroom Lobby</td>
</tr>
<tr>
<td>12:35-1:00</td>
<td>Dongsu Ryu</td>
<td>Shock Waves in Cluster Outskirts</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>1:00-1:25</td>
<td>Mike McCourt</td>
<td>Sculpting Cosmic Gas into Clusters</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>1:25-1:50</td>
<td>Ian Parrish</td>
<td>The Effects of Accretion History on the SZ Signal</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>1:50-2:15</td>
<td>Erwin Lau</td>
<td>Shapes of X-ray emitting gas in simulated &amp; observed clusters</td>
<td>Ballroom 1</td>
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### MASS SCALING RELATIONS:

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<thead>
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### CLUSTER OUTSKIRTS:

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>4:30-4:55</td>
<td>Mark Bautz</td>
<td>Suzaku at the Outskirts</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>4:55-5:20</td>
<td>Aurora Simionescu</td>
<td>Thermodynamic properties of the outskirt of the nearest, X-ray brightest galaxy clusters</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>5:20-5:40</td>
<td>Ondrej Urban</td>
<td>Azimuthally Resolved X-Ray Spectroscopy of the Perseus Cluster Out to Its Edge</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>5:40-6:05</td>
<td>Silvano Molendi</td>
<td>Extending measures of the ICM to the outskirt: facts, myths, puzzles &amp; SZ</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>6:05-6:35</td>
<td></td>
<td>Coffee Break</td>
<td>Ballroom Lobby</td>
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<tr>
<td>6:35-7:00</td>
<td>Dongsu Ryu</td>
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<td>Continental Breakfast</td>
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<td>Ballroom Lobby</td>
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<tr>
<td>8:00-8:25</td>
<td>Larry Rudnick</td>
<td>An Observational Snapshot of the R-ICM</td>
<td>Ballroom 1</td>
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<tr>
<td>8:25-8:50</td>
<td>Robert Laing</td>
<td>Magnetic Fields in Galaxy Clusters</td>
<td>Ballroom 1</td>
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<tr>
<td>8:50-9:15</td>
<td>Tiziana Venturi</td>
<td>Non-thermal properties of galaxy clusters: radio halos as signposts of cluster mergers</td>
<td>Ballroom 1</td>
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<tr>
<td>9:15-9:40</td>
<td>Gianfranco Brunetti</td>
<td>Acceleration of cosmic rays in galaxy clusters &amp; radio halos</td>
<td>Ballroom 1</td>
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<tr>
<td>9:40-10:10</td>
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<tr>
<td>10:10-10:30</td>
<td>Shea Brown</td>
<td>Limiting the Off-State of Relativistic Plasma in Clusters</td>
<td>Ballroom 1</td>
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<tr>
<td>10:30-10:55</td>
<td>Rossella Cassano</td>
<td>Revising scaling relations for giant radio halos in galaxy clusters</td>
<td>Ballroom 1</td>
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<tr>
<td>10:55-11:15</td>
<td>Paul Ricker</td>
<td>Radio Halo Statistics in Cosmological Simulations</td>
<td>Ballroom 1</td>
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<tr>
<td>11:15-11:35</td>
<td>Julius Donnert</td>
<td>The Rise &amp; Fall of Giant Radio Haloes in Galaxy Clusters</td>
<td>Ballroom 1</td>
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<tr>
<td>11:35-12:00</td>
<td>Hyesung Kang</td>
<td>Diffusive Shock Acceleration at Cosmological Shock Waves</td>
<td>Ballroom 1</td>
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<tr>
<td>4:30-4:55</td>
<td>Reinout van Weeren</td>
<td>Probing shocks &amp; particle acceleration in cluster outskirts with radio observations</td>
<td>Ballroom 1</td>
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<tr>
<td>4:55-5:20</td>
<td>Sam Skillman</td>
<td>AMR Simulations of Galaxy Cluster Radio Relics</td>
<td>Ballroom 1</td>
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<tr>
<td>5:20-5:45</td>
<td>Simona Giacintucci</td>
<td>Observations of radio minihalos in sloshing cool cores</td>
<td>Ballroom 1</td>
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<tr>
<td>5:45-6:10</td>
<td>John ZuHone</td>
<td>Simulating Radio Minihalos in Sloshing Galaxy Clusters</td>
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<td>Ballroom Lobby</td>
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<tr>
<td>6:40-7:00</td>
<td>Tracy Clarke</td>
<td>Tracing the ICM with Non-thermal Radio Emission: Observations &amp; Instrumentation</td>
<td>Ballroom 1</td>
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<tr>
<td>7:00-7:25</td>
<td>Huub Rottgering</td>
<td>The impact of merger shocks on the evolution of clusters; LOFAR</td>
<td>Ballroom 1</td>
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<tr>
<td>7:25-7:50</td>
<td>Melanie Johnston-Hollitt</td>
<td>Cluster Science with the Murchison Widefield Array &amp; the Australian SKA Pathfinder</td>
<td>Ballroom 1</td>
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<tr>
<td><strong>Posters:</strong></td>
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<td>2256 Trasatti</td>
<td>Abell 94 a high radio frequency view</td>
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<td></td>
<td>Kaustuv Basu</td>
<td>An SZ take on radio halos: Comparative analysis between SZ &amp; X-ray selected cluster samples</td>
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<tr>
<td></td>
<td>Ian Parrish</td>
<td>Particle acceleration in clusters; similarities with solar wind</td>
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## SNOWCLUSTER 2013 SCHEDULE

**Wednesday, March 27, 2013**

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<tr>
<td>7:00-8:00</td>
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<td>Continental Breakfast</td>
<td>Ballroom Lobby</td>
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<tr>
<td>8:00-8:25</td>
<td>Klaus Dolag</td>
<td>Magnetic Fields in Galaxy Clusters &amp; Beyond</td>
<td>Ballroom 1</td>
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<tr>
<td>8:25-8:50</td>
<td>Olaf Reimer</td>
<td>Galaxy clusters observations at gamma-ray energies - status &amp; prospects</td>
<td>Ballroom 1</td>
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<tr>
<td>8:50-9:15</td>
<td>Dan Wik</td>
<td>NuSTAR’s Hard Look at the Bullet Cluster: First Results</td>
<td>Ballroom 1</td>
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<tr>
<td>9:35-10:05</td>
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<td>Coffee Break</td>
<td>Ballroom Lobby</td>
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<tr>
<td>10:05-10:30</td>
<td>Massimo Meneghetti</td>
<td>Lensing analysis of simulated galaxy clusters</td>
<td>Ballroom 1</td>
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<tr>
<td>10:30-10:50</td>
<td>Matthew Bayliss</td>
<td>Astrophysical Biases in Strong Lensing Selected Galaxy Clusters</td>
<td>Ballroom 1</td>
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<tr>
<td>10:50-11:10</td>
<td>Peter Melchior</td>
<td>Mass &amp; light maps of four massive galaxy clusters from early DES data</td>
<td>Ballroom 1</td>
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<tr>
<td>11:10-11:30</td>
<td>Jes Ford</td>
<td>Magnification by Clusters in CFHTLS Wide</td>
<td>Ballroom 1</td>
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<tr>
<td>11:30-11:50</td>
<td>Ana Cecilia Soja</td>
<td>Weak Lensing Analysis of the cool core cluster RXC J1504-0248</td>
<td>Ballroom 1</td>
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### Posters:

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<thead>
<tr>
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<tbody>
<tr>
<td>Yun-Hsin Huang</td>
<td>Consistency of galaxy cluster mass estimates inferred from weak gravitational lensing &amp; large scale clustering</td>
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<tr>
<td>Rogerio Monteiro-Oliveira</td>
<td>Dynamical analysis of the merging cluster Abell 1758</td>
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### Turbulence:

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<tbody>
<tr>
<td>4:30-4:50</td>
<td>Tetsu Kitayama</td>
<td>Turbulence capabilities of Astro-H</td>
<td>Ballroom 1</td>
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<tr>
<td>4:50-5:15</td>
<td>Daisuke Nagai</td>
<td>Predicting Turbulence in Galaxy Clusters for Astro-H</td>
<td>Ballroom 1</td>
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<tr>
<td>5:15-5:40</td>
<td>Irina Zhuravleva</td>
<td>Prospects of measuring ICM turbulence with Astro-H</td>
<td>Ballroom 1</td>
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<tr>
<td>5:40-6:00</td>
<td>Cien Shang</td>
<td>Probing Gas Motions in the Intra-Cluster Medium with Emission Line Profiles</td>
<td>Ballroom 1</td>
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<tr>
<td>6:00-6:30</td>
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<td>Coffee Break</td>
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### Future X-ray Mission Concepts:

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<tr>
<td>6:30-6:45</td>
<td>Randall Smith</td>
<td>Observing Clusters with AXSIO &amp; other future missions</td>
<td>Ballroom 1</td>
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<tr>
<td>6:45-7:00</td>
<td>Bill Forman</td>
<td>SMART-X</td>
<td>Ballroom 1</td>
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<tr>
<td>7:00-7:30</td>
<td>Etienne Pointecouteau &amp;</td>
<td>Discussion of prospective ESA L2 &amp; L3 missions for 2028 &amp; 2034</td>
<td>Ballroom 1</td>
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<td>Stefano Ettori</td>
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<tr>
<td>8:00 - 10:00</td>
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<td>Banquet</td>
<td>Golden Cliff Ballroom</td>
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<td>8:00-8:25</td>
<td>Helen Russell</td>
<td>X-ray observations of shock fronts in merging galaxy clusters</td>
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<td>8:25-8:50</td>
<td>Hiroki Akamatsu</td>
<td>Suzaku view of the radio relic clusters</td>
<td>Ballroom 1</td>
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<td>8:50-9:15</td>
<td>Elke Roediger</td>
<td>Cold fronts &amp; gas stripped galaxies as probes of ICM properties</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>9:15-9:40</td>
<td>Paul Nulsen</td>
<td>Sloshing Cold Fronts &amp; Cluster G-modes</td>
<td>Ballroom 1</td>
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<td>Ballroom Lobby</td>
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<tr>
<td>10:10-10:35</td>
<td>Uri Keshet</td>
<td>Galaxy cluster cores: stirred, not shaken</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>10:35-10:55</td>
<td>Sabrina De Grandi</td>
<td>On the formation of metal abundance peaks in cool-core clusters: hints from cluster WARPJ1415.1+3612 at z=1</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>10:55-11:15</td>
<td>Mariachiara Rossetti</td>
<td>Beyond the (cool) cores: large scale sloshing in the ICM</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>11:15-11:35</td>
<td>Melville Ulmer</td>
<td>The Structure &amp; Substructure Analysis of DAFT/FADA Clusters of Galaxies in the Redshift Range 0.4-0.9</td>
<td>Ballroom 1</td>
</tr>
<tr>
<td>11:35-11:55</td>
<td>Daniyar Nurgaliev</td>
<td>New X-ray substructure statistic &amp; cluster classification scheme</td>
<td>Ballroom 1</td>
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<tr>
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<td></td>
<td>Kiran Lakhchaura</td>
<td>Intracluster medium of 14 clusters of galaxies with substructures</td>
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</tr>
<tr>
<td>4:30-4:55</td>
<td>Tom Jones</td>
<td>Simulations &amp; MHD Turbulence in Galaxy Clusters</td>
<td>Ballroom 1</td>
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<tr>
<td>4:55-5:20</td>
<td>Matt Kunz</td>
<td>Peering under the rug: The ICM from a plasma physicist’s perspective, &amp; why you should care</td>
<td>Ballroom 1</td>
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<tr>
<td>5:20-5:45</td>
<td>Eugene Churazov</td>
<td>Temperature - magnetic field ordering in the ICM</td>
<td>Ballroom 1</td>
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<tr>
<td>5:45-6:05</td>
<td>John ZuHone</td>
<td>Constraining the Transport Properties of the ICM with Cold Fronts</td>
<td>Ballroom 1</td>
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<tr>
<td></td>
<td>Brock Russell</td>
<td>Constraining thermal conduction in the ICM using observed temperature profile in relaxed clusters</td>
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<td></td>
<td>Coffee Break</td>
<td>Ballroom Lobby</td>
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<tr>
<td>6:35-7:00</td>
<td>Alastair Edge</td>
<td>Cold gas in cluster cores - the fuel for feedback</td>
<td>Ballroom 1</td>
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<tr>
<td>7:00-7:25</td>
<td>Norbert Werner</td>
<td>Filamentary cold gas in nearby giant ellipticals</td>
<td>Ballroom 1</td>
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<tr>
<td>7:25-7:50</td>
<td>Brian McNamara</td>
<td>Gaseous Outflows in Cluster Cores (including ALMA results)</td>
<td>Ballroom 1</td>
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<tr>
<td><strong>Posters:</strong></td>
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<tr>
<td>Time</td>
<td>Speaker</td>
<td>Title/Event</td>
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<tr>
<td>7:00-8:00</td>
<td>Continental Breakfast</td>
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<td>Ballroom Lobby</td>
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<td></td>
<td></td>
<td><strong>AGN FEEDBACK, STAR FORMATION</strong></td>
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<tr>
<td>8:00-8:25</td>
<td>Bill Forman</td>
<td>Chandra &amp; VLA Observations of Supermassive Black Hole Outbursts in M87 &amp;</td>
<td>Ballroom 1</td>
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<td></td>
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<td>Implications for Feedback in Early-Type Galaxies</td>
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<td>8:25-8:50</td>
<td>Scott Randall</td>
<td>Feedback Through ICM/AGN Interactions in the Cores of Galaxy Groups &amp; Clusters</td>
<td>Ballroom 1</td>
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<tr>
<td>8:50-9:15</td>
<td>Megan Donahue</td>
<td>UV Morphology &amp; Star Formation in CLASH Brightest Cluster Galaxies</td>
<td>Ballroom 1</td>
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<td>9:15-9:35</td>
<td>Julie Hlavacek-Larrondo</td>
<td>The Evolution of AGN Feedback in Brightest Cluster Galaxies</td>
<td>Ballroom 1</td>
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<td>9:35-10:05</td>
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<td>Coffee Break</td>
<td>Ballroom Lobby</td>
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<tr>
<td>10:05-10:30</td>
<td>Mark Voit</td>
<td>AGN Feedback &amp; Star Formation in Cluster Cores</td>
<td>Ballroom 1</td>
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<tr>
<td>10:30-10:50</td>
<td>Massimo Gaspari</td>
<td>Black hole accretion &amp; feedback driven by thermal instability</td>
<td>Ballroom 1</td>
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<td>10:50-11:10</td>
<td>Bill Mathews</td>
<td>Cosmic ray dynamics inside the Cygnus A radio-X-ray cavity</td>
<td>Ballroom 1</td>
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<td>Posters:</td>
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<td></td>
<td>Christoph Pfrommer</td>
<td>The Physics &amp; Cosmology of TeV Blazars</td>
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<td>Stephen Skory</td>
<td>On The Road To More Realistic Galaxy Cluster Simulations: The Effects of Radiative Cooling &amp; Thermal Feedback Prescriptions on the Observational Properties of Simulated Galaxy Clusters</td>
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<td>Shuataro Ueda</td>
<td>A type 2 QSO in the central galaxy of the distant cluster SPT-CLJ2344-4243</td>
<td>Ballroom 1</td>
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<td><strong>SZ I:</strong></td>
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<tr>
<td>11:10-11:35</td>
<td>Tom Plagge</td>
<td>Interferometric SZ Measurements with CARMA</td>
<td>Ballroom 1</td>
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<td>11:35-12:00</td>
<td>Felipe Menanteau</td>
<td>The SZ cluster sample from the Atacama Cosmology Telescope</td>
<td>Ballroom 1</td>
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<td><strong>SZ II:</strong></td>
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<tr>
<td>4:30-4:50</td>
<td>Neelima Sehgal</td>
<td>Relation Between Galaxy Cluster Optical Richness &amp; SZ Effect</td>
<td>Ballroom 1</td>
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<tr>
<td>4:50-5:10</td>
<td>Jack Hughes</td>
<td>What's New with El Gordo?</td>
<td>Ballroom 1</td>
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<tr>
<td>5:10-5:35</td>
<td>Pasquale Mazzotta</td>
<td>Planck results on the Coma cluster</td>
<td>Ballroom 1</td>
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<tr>
<td>5:35-6:00</td>
<td>Etienne Pointecouteau</td>
<td>Planck results on cluster pressure profiles</td>
<td>Ballroom 1</td>
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<td>Coffee Break</td>
<td>Ballroom Lobby</td>
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<tr>
<td>6:30-6:50</td>
<td>Siavash Aslanbeigi</td>
<td>An Optimal &amp; Model-Independent Measurement of the Pressure Profile of Hot Gas in Clusters of Galaxies Using the SZ Effect</td>
<td>Ballroom 1</td>
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<tr>
<td>6:50-7:15</td>
<td>Jack Sayers</td>
<td>Recent Results from the Bolocam SZ Cluster Program</td>
<td>Ballroom 1</td>
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<tr>
<td>7:15-7:40</td>
<td>Tony Mroczkowski</td>
<td>High Resolution 9&quot; Observations of the SZ Effect with MUSTANG at 90 GHz</td>
<td>Ballroom 1</td>
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<tr>
<td>7:40-8:00</td>
<td>Remi Adam</td>
<td>The first observation of galaxy clusters via the thermal SZ effect with Kinetic Inductance Detectors using the NIKA camera</td>
<td>Ballroom 1</td>
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<td>Posters:</td>
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<td></td>
<td>Timothy Shimwell</td>
<td>A blind detection of a large, complex, Sunyaev-Zel'dovich structure with the Arcminute Microkelvin Imager</td>
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<td></td>
<td>Devin Crichton</td>
<td>Estimating Radio Source Contamination for Large SZ Cluster Surveys</td>
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</table>

*LAST UPDATED, MARCH 21, 2013*