PARALLEL SESSIONS
### International Advisory Committee

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution 1</th>
<th>Institution 2</th>
<th>Institution 3</th>
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<tbody>
<tr>
<td>Daniel Akerib</td>
<td>Case Western Reserve University, Cleveland, USA</td>
<td></td>
<td>Rita Bernabei</td>
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<td></td>
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<td>Universita degli Studi di Roma, Italy</td>
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<td>Gianfranco Bertone</td>
<td>University of Amsterdam</td>
<td>Joakim Edsjo</td>
<td>Katherine Freese</td>
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<td>Oskar Klein Centre / Stockholm University</td>
<td>University of Michigan, USA</td>
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<td>Richard Gaitskell</td>
<td>Brown University, USA</td>
<td>Gilles Gerbier</td>
<td>Anne Green</td>
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<td>IRFU/ CEA Saclay, France</td>
<td>University of Nottingham, UK</td>
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<td>Karsten Jedamzik</td>
<td>Universite de Montpellier, France</td>
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<td>Lawrence Krauss</td>
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<td>Arizona State University, USA</td>
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<td>Vitaly Kudryavtsev</td>
<td>University of Sheffield</td>
<td>Xiangdong Ji</td>
<td>Leszek Roszkowski</td>
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<td>University of Maryland, USA</td>
<td>University of Sheffield, UK</td>
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<td>Bernard Sadoulet</td>
<td>University of California, Berkeley, USA</td>
<td>Pierre Salati</td>
<td>Daniel Santos</td>
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<td>University of California, Berkeley, USA</td>
<td>LPSC/UJF/CNRS</td>
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<td>Pierre Sikivie</td>
<td>University of Florida, USA</td>
<td>Daniel Snowden-Ifft</td>
<td>Neil Spooner</td>
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<td>Occidental College</td>
<td>University of Sheffield, UK</td>
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<tr>
<td>Max Tegmark</td>
<td>Kavli Institute for Astrophysics &amp; Space Research at MIT, USA</td>
<td>Karl van Bibber</td>
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<td>Naval Postgraduate School Monterey, USA</td>
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### Local Organizing Committee

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<thead>
<tr>
<th>Name</th>
<th>Institution 1</th>
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<tbody>
<tr>
<td>Daniel Bauer</td>
<td>Fermi National Accelerator Laboratory</td>
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<td>Juan Collar</td>
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<td>Kavli Institute for Cosmological Physics</td>
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<tr>
<td>Scott Dodelson</td>
<td>Fermi National Accelerator Laboratory</td>
<td>Aimee Giles</td>
<td>Jeter Hall</td>
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<td>Dan Hooper</td>
<td>Fermi National Accelerator Laboratory</td>
<td>Lauren Hsu</td>
<td>Rocky Kolb</td>
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<td>Fermi National Accelerator Laboratory</td>
<td>University of Chicago/KICP</td>
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<tr>
<td>Angela Olinto</td>
<td>Kavli Institute for Cosmological Physics</td>
<td>Helen Pates</td>
<td>Ted Ressell</td>
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<td>Kavli Institute for Cosmological Physics</td>
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<tr>
<td>Douglas Spolyar</td>
<td>Fermi National Accelerator Laboratory</td>
<td>Lian-Tao Wang</td>
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<td>Kavli Institute for Cosmological Physics</td>
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Monday - July 23, 2012

DIRECT DETECTION I
Convener: Christopher Savage
(Wolf Point Ballroom, 15th floor)

2:15 PM - 2:35 PM  
Daniel Brandt, KIPAC, SLAC National Accelerator Lab, Stanford University  
*Understanding the Physics of SuperCDMS SNOLAB Detectors*

2:40 PM - 3:00 PM  
Hassan Chagani, University of Minnesota  
*SuperCDMS-SNOLAB: Road to 100 mm Germanium Detectors*

3:05 PM - 3:25 PM  
Manungu Kiveni, Syracuse University  
*Reanalysis of CDMS II data*

3:30 PM - 3:50 PM  
Nicole E Fields, University of Chicago  
*A low-energy analysis of CDMS data*

3:55 PM - 4:15 PM  
Scott A Hertel, MIT  
*Search for Annual Modulation in Low-Energy CDMS-II Data*

4:20 PM - 4:40 PM  
Vitaly Kudryavtsev, University of Sheffield  
*Background studies for the EDELWEISS dark matter experiment*

4:45 PM - 5:05 PM  
Veronique Sanglard, Institut de Physique Nucleaire de Lyon  
*EDELWEISS-II WIMP search at low energy*

5:10 PM - 5:30 PM  
Silva Scorza, Southern Methodist University  
*SuperCDMS-SNOLAB - an active neutron veto shield design*

5:35 PM - 5:55 PM  
Hans Kraus, University of Oxford  
*EURECA*

INDIRECT DETECTION I
Convener: Paolo Gondolo
(Western Stage room, 14th floor)

2:15 PM - 2:35 PM  
Matthias Danninger, Stockholm University  
*Search for Dark Matter Captured in the Sun with the IceCube Neutrino Observatory*

2:40 PM - 3:00 PM  
Sofia Sivertsson, KTH / Stockholm University  
*WIMP diffusion in the Solar System and the neutrino signal from the Sun and the Earth*

3:05 PM - 3:25 PM  
Joakim Edsjo, Oskar Klein Centre / Stockholm University  
*Neutrino searches for dark matter*

3:30 PM - 3:50 PM  
Jonathan A Miller, Vrije Universiteit Brussel  
*Search for Secluded Dark Matter in the Sun using the IceCube Neutrino Observatory*

3:55 PM - 4:15 PM  
Basudeb Dasgupta, CCAPP, Ohio State University  
*Probing DM in Galaxy Clusters using Neutrino Telescopes*
**Tuesday - July 24, 2012**

**DIRECT DETECTION II**  
*Convener: Lauren Hsu*  
(Wolf Point Ballroom, 15th floor)

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>2:15 PM - 2:35 PM</td>
<td>Kimberly J Palladino, MIT</td>
<td>A discussion of the DEAP-3600 calibration systems.</td>
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<tr>
<td>2:40 PM - 3:00 PM</td>
<td>Mark Boulay, Queen's University</td>
<td>DEAP-3600 Dark Matter Search at SNOLAB</td>
</tr>
<tr>
<td>3:05 PM - 3:25 PM</td>
<td>Akira Hitachi, Kochi Medical School</td>
<td>The electronic LET for slow ions in dark matter detector media</td>
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<tr>
<td>3:30 PM - 3:50 PM</td>
<td>Dinesh Loomba, University of New Mexico</td>
<td>The DRIFT Dark Matter Search</td>
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<tr>
<td>3:55 PM - 4:15 PM</td>
<td>Daniel Santos, LPSC/UJF/CNRS</td>
<td>Directional Detection of DM with MIMAC</td>
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<td>4:20 PM - 4:40 PM</td>
<td>Kentaro Miuchi, Kobe University</td>
<td>NEWAGE</td>
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<tr>
<td>4:45 PM - 5:05 PM</td>
<td>Shawn W Henderson, Massachusetts Institute of Technology</td>
<td>Surface Commissioning of the DMTPC 4-Shooter Directional Dark Matter Detector Prototype</td>
</tr>
<tr>
<td>5:10 PM - 5:30 PM</td>
<td>Tatsuhiro Naka, Nagoya University</td>
<td>Directional Dark Matter Search with Nuclear Emulsion</td>
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<tr>
<td>5:35 PM - 5:55 PM</td>
<td>Steven K Linden, Boston University</td>
<td>Status Report on the MiniCLEAN Experiment</td>
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**INDIRECT DETECTION II**  
*Convener: James Buckley*  
(Western Stage room, 14th floor)

<table>
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<tr>
<td>2:15 PM - 2:35 PM</td>
<td>Lars Bergstrom, Stockholm University</td>
<td>Spectral gamma-ray signatures in dark matter detection - a review</td>
</tr>
<tr>
<td>2:40 PM - 3:00 PM</td>
<td>Timothy Linden, UC - Santa Cruz</td>
<td>Indirect Detection of Dark Matter at the Galactic Center</td>
</tr>
<tr>
<td>3:05 PM - 3:25 PM</td>
<td>Christoph Weniger, Max Planck Institute for Physics, Munich</td>
<td>A tentative gamma-ray line from dark matter annihilation at the Fermi Large Area Telescope</td>
</tr>
<tr>
<td>3:30 PM - 3:50 PM</td>
<td>Gabrijela Zaharijas, ICTP, Trieste</td>
<td>Constraints on dark matter annihilation and decay in the Milky Way halo</td>
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<tr>
<td>3:55 PM - 4:15 PM</td>
<td>Meng Su, Harvard University/MIT</td>
<td>Evidence for Gamma-ray Jets in Our Milky Way</td>
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<tr>
<td>4:20 PM - 4:40 PM</td>
<td>Emmanuel Moulin, CEA Saclay, IRFU</td>
<td>Indirect dark matter searches with current imaging atmospheric Cherenkov telescopes</td>
</tr>
<tr>
<td>4:45 PM - 5:05 PM</td>
<td>Emmanuel Moulin, CEA Saclay, IRFU</td>
<td>Search for Dark Matter Annihilation Signals from the Fornax Galaxy Cluster with H.E.S.S.</td>
</tr>
<tr>
<td>5:10 PM - 5:30 PM</td>
<td>Pat Scott, McGill University</td>
<td>Cosmology with ultracompact minihalos</td>
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**PARTICLE PHYSICS**  
*Convener: Stefano Profumo*  
(Steamboat room, 14th floor)

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<tr>
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<tbody>
<tr>
<td>2:15 PM - 2:35 PM</td>
<td>Jordan Damgov, Texas Tech University</td>
<td>Recent results from a search for Dark Matter production in the CMS experiment</td>
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<tr>
<td>2:40 PM - 3:00 PM</td>
<td>Sara Rydbeck, DESY</td>
<td>The inert doublet model and the role of multileptons at the LHC</td>
</tr>
</tbody>
</table>
3:05 PM - 3:25 PM  Stefano Scopel, Sogang University Korea  
*Phenomenology of light neutralinos in view of recent results at the CERN Large Hadron Collider*

3:30 PM - 3:50 PM  Jussi Virkajarvi, CP3-Origins & DIAS, University of Southern Denmark  
*Invisible Higgs and Dark Matter*

3:55 PM - 4:15 PM  Randy C Cotta, SLAC/Stanford  
*Experimental Bounds on Chi-Chi-V-V*

4:20 PM - 4:40 PM  Jaime Ruz Armendariz, Lawrence Livermore National Laboratory  
*Constraints on the axion-electron coupling for the non-hadronic models with CAST*

4:45 PM - 5:05 PM  Julia K Vogel, Lawrence Livermore National Laboratory  
*The International Axion Observatory (IAXO)*

5:10 PM - 5:30 PM  Qiaoli Yang, University of Florida  
*Axion BEC: a model beyond CDM*
Wednesday - July 25, 2012

DIRECT DETECTION III
Convener: Vitaly Kudryavtsev
(Wolf Point Ballroom, 15th floor)

2:15 PM - 2:35 PM  Ran Budnik, Columbia university
The XENON1T experiment

2:40 PM - 3:00 PM  Carmen Carmona-Benitez, Case Western Reserve University
LUX detector, Installation and Operation

3:05 PM - 3:25 PM  Carlos H Faham, Brown University
Alpha tomography, calibrations and backgrounds in the LUX dark matter experiment

3:30 PM - 3:50 PM  Matthew M Szydagis, UC Davis
Calibrations of the LUX Detector on the Surface

3:55 PM - 4:15 PM  Sean M Paling, Boulby Underground Science Facility
Boulby Deep Underground Science Facility: Status and Future Plans

4:20 PM - 4:40 PM  Tom Shutt, Case Western Reserve University
The LZ Experiment

4:45 PM - 5:05 PM  David Malling, Brown University
Background Characterization and Rejection in the LZ Detector

5:10 PM - 5:30 PM  Katsushi Arisaka, UCLA
MAX and XAX: Dark matter and neutrino observatory based on multi-ton liquid xenon and liquid argon

PARTICLE PHYSICS/DIRECT DETECTION I
Convener: Matthew Buckley
(Western Stage room, 14th floor)

2:15 PM - 2:35 PM  Nicolas Bernal, University of Bonn, Germany
Phenomenology of WIMP baryogenesis models

2:40 PM - 3:00 PM  Paolo Gondolo, University of Utah
Phenomenology of light WIMPs

3:05 PM - 3:25 PM  Andreas Goudelis, DESY - Hamburg
The Inert Doublet Model of Dark Matter Beyond Tree-level

3:30 PM - 3:50 PM  Jonathan Kozaczuk, UC Santa Cruz
Exploring the Dark Matter - Electroweak Baryogenesis Connection in Supersymmetry

3:55 PM - 4:15 PM  Jong-Chul Park, Korea Institute for Advanced Study
Assisted freeze-out

4:20 PM - 4:40 PM  Osamu Seto, Hokkai-Gakuen University
Initially asymmetric dark matter

4:45 PM - 5:05 PM  Seodong Shin, Seoul National University
Dark matter in the PQMSSM in anomaly mediation

5:10 PM - 5:30 PM  Zuowei Liu, McGill University
Millicharged Atomic Dark Matter

5:35 PM - 5:55 PM  Wei Xue, Physics Department, McGill University
An optimistic CoGeNT analysis
Thursday - July 26, 2012

DIRECT DETECTION IV
Convener: Viktor Zacek
(Wolf Point Ballroom, 15th floor)

2:15 PM - 2:35 PM
Michael B. Crisler, Fermilab
*Dark Matter Search Results from the COUPP-4kg Bubble Chamber at SNOLAB*

2:40 PM - 3:00 PM
Hugh Lippincott, Fermilab
*COUPP Iodine Recoil Threshold Experiment*

3:05 PM - 3:25 PM
Alan E Robinson, University of Chicago
*COUPP Carbon and Fluorine Recoil Thresholds*

3:30 PM - 3:50 PM
Andrew Somnenschein, Fermilab
*COUPP-60*

3:55 PM - 4:15 PM
Eric Vazquez-Jauregui, SNOLAB
*COUPP500: A 500kg CF3I Bubble Chamber*

4:20 PM - 4:40 PM
Juan Estrada, Fermilab
*Direct Dark Matter Search with Charge Couple Devices*

4:45 PM - 5:05 PM
Ritoban Basu Thakur, Fermilab / UIUC
*The CDMSlite experiment*

5:10 PM - 5:30 PM
Maria Luisa Sarsa, University of Zaragoza
*Background model for a NaI(Tl) detector in the frame of the ANAIS experiment*

INDIRECT DETECTION III
Convener: Douglas Spolyar
(Western Stage room, 14th floor)

2:15 PM - 2:35 PM
Alex Geringer-Sameth, Brown University
*Results of continuum and line WIMP searches in dwarf galaxies with Fermi*

2:40 PM - 3:00 PM
Ilias Cholis, SISSA (Scuola Internazionale Superiore di Studi Avanzati)
*Extracting limits on dark matter annihilation from dwarf spheroidal galaxies*

3:05 PM - 3:25 PM
Alexander A. Kirillov, National Research Nuclear University "MEPhI"
*Small scale dark matter clumps and its gamma ray signals*

3:30 PM - 3:50 PM
Hannes-S. Zechlin, University of Hamburg, Germany
*Dark matter subhalos: the observational challenge*

3:55 PM - 4:15 PM
Ranjan Laha, CCAPP & Dept. of Physics, Ohio State University
*Radio Constraints on dark matter induced Galactic Center gamma-ray lines*

4:20 PM - 4:40 PM
Alexander V Belikov, Institut d’Astrophysique de Paris
*Testing the composition of the of gamma rays from the galactic center and the cosmic ray electrons at TeV scale*

4:45 PM - 5:05 PM
Mariangela Lisanti, Princeton Center for Theoretical Science
*Illuminating the 130 GeV Line with Continuum Photons*

5:10 PM - 5:30 PM
Philip von Doetinchem, UC Berkeley, Space Sciences Laboratory
*The General Antiparticle Spectrometer (GAPS) - Hunt for dark matter using low energy antideuterons*
PARTICLE PHYSICS/DIRECT DETECTION II  
Convener: Joakim Edsjo  
(Wolf Point Ballroom, 15th floor)

9:00 AM - 9:20 AM  
Chris Purcell, University of Pittsburgh  
Dark Matter Direct Search Rates in Simulations of the Milky Way and Sagittarius Stream

9:25 AM - 9:45 AM  
Richard Hill, University of Chicago  
Universal behavior in the scattering of heavy, weakly interacting dark matter on nuclear targets

9:50 AM - 10:10 AM  
Chung-Lin Shan, Academia Sinica  
Model-Independent Data Analysis in Direct Searches for Inelastic Dark Matter

10:15 AM - 10:35 AM  
Fabio Iocco, Oskar Klein Center for CosmoParticle Physics  
Dark matter distribution in the Milky Way: microlensing and dynamical constraints

10:40 AM - 11:00 AM  
Bibhushan Shakya, Cornell University  
Direct Detection Implications on Supersymmetry Naturalness

11:05 AM - 11:25 AM  
Miguel Pato, Technical University Munich  
Combining direct detection and antiprotons to constrain dark matter models

STRUCTURE AND STARS  
Convener: Carlos Frenk  
(Steamboat room, 14th floor)

9:00 AM - 9:20 AM  
Andrew Zentner, University of Pittsburgh  
Asymmetric Dark Matter may Alter the Conditions for Stardom

9:25 AM - 9:45 AM  
Mei-Yu Wang, University of Pittsburgh  
Constraints on Decaying Dark Matter from Large-Scale Structure

9:50 AM - 10:10 AM  
Donghai Zhao, Shanghai Astronomical Observatory  
The universal mass-concentration relation for cold, warm and hot dark matter halos

10:15 AM - 10:35 AM  
Matthew R Becker, University of Chicago  
Extreme Scale Weak Lensing Simulations for Large Area Sky Surveys

10:40 AM - 11:00 AM  
Andrey Kravtsov, University of Chicago  
Evolution of halo mass and cluster observable-mass scaling relations

INDIRECT DETECTION IV  
Convener: Mariangela Lisanti  
(Western Stage room, 14th floor)

9:00 AM - 9:20 AM  
Alessandro Cuoco, Oskar Kein Center for CosmoParticle Physics  
Diffuse Gamma-ray Background anisotropies and Dark Matter

9:25 AM - 9:45 AM  
German A. Gomez-Vargas, Universidad Autonoma de Madrid / IFT UAM-CSIC / INFN Roma Tor Vergata  
Dark matter constraints from the anisotropies of the gamma-ray background measured by the Fermi-LAT

9:50 AM - 10:10 AM  
Andrew W Smith, University of Utah  
The VERITAS Indirect Dark Matter Detection Program

10:15 AM - 10:35 AM  
David Tran, University of Minnesota  
Cosmic-ray and gamma-ray constraints on dark matter stability