



<http://kicp-workshops.uchicago.edu/IDM2012/>

PLENARY SESSIONS



<http://kicp.uchicago.edu/>



<http://www.nsf.gov/>



THE UNIVERSITY OF
CHICAGO

<http://www.uchicago.edu/>



<http://www.fnal.gov/>

International Advisory Committee

Daniel Akerib

Case Western Reserve University,
Cleveland, USA

Elena Aprile

Columbia University, USA

Rita Bernabei

Universita degli Studi di Roma, Italy

Gianfranco Bertone

University of Amsterdam

Joakim Edsjo

Oskar Klein Centre / Stockholm
University

Katherine Freese

University of Michigan, USA

Richard Gaitskell

Brown University, USA

Gilles Gerbier

IRFU/ CEA Saclay, France

Anne Green

University of Nottingham, UK

Karsten Jedamzik

Universite de Montpellier, France

Xiangdong Ji

University of Maryland, USA

Lawrence Krauss

Arizona State University, USA

Vitaly Kudryavtsev

University of Sheffield

Reina Maruyama

University of Wisconsin-Madison

Leszek Roszkowski

University of Sheffield, UK

Bernard Sadoulet

University of California, Berkeley, USA

Pierre Salati

University of California, Berkeley, USA

Daniel Santos

LPSC/UJF/CNRS

Pierre Sikivie

University of Florida, USA

Daniel Snowden-Ifft

Occidental College

Neil Spooner

University of Sheffield, UK

Max Tegmark

Kavli Institute for Astrophysics & Space
Research at MIT, USA

Karl van Bibber

Naval Postgraduate School Monterey,
USA

Local Organizing Committee

Daniel Bauer

Fermi National Accelerator Laboratory

Matthew Buckley

Fermi National Accelerator Laboratory

Juan Collar

Kavli Institute for Cosmological Physics

Scott Dodelson

Fermi National Accelerator Laboratory

Aimee Giles

Kavli Institute for Cosmological Physics

Jeter Hall

Fermi National Accelerator Laboratory

Dan Hooper

Fermi National Accelerator Laboratory

Lauren Hsu

Fermi National Accelerator Laboratory

Rocky Kolb

University of Chicago/KICP

Angela Olinto

Kavli Institute for Cosmological Physics

Helen Pates

Kavli Institute for Cosmological Physics

Ted Ressel

Kavli Institute for Cosmological Physics

Douglas Spolyar

Fermi National Accelerator Laboratory

Lian-Tao Wang

Kavli Institute for Cosmological Physics

Monday - July 23, 2012

8:30 AM - 9:00 AM *CONTINENTAL BREAKFAST*
(Wolf Point Reception area, 15th floor)

MORNING PLENARY SESSION I

Convener: Dan Hooper
(Wolf Point Ballroom, 15th floor)

9:00 AM - 9:10 AM *BRIEF INTRODUCTION*

9:10 AM - 9:35 AM **Priscilla B Cushman**, University of Minnesota
Plenary Talk: SuperCDMS: Progress and Future Directions

9:35 AM - 10:00 AM **Antonio Melgarejo**, Columbia University
Plenary Talk: New results from XENON100

10:00 AM - 10:25 AM **Klaus Eitel**, Karlsruhe Institute of Technology
Plenary Talk: The EDELWEISS dark matter search

10:25 AM - 11:00 AM *COFFEE BREAK*
(Wolf Point Reception area, 15th floor)

MORNING PLENARY SESSION II

Convener: Daniel Bauer
(Wolf Point Ballroom, 15th floor)

11:00 AM - 11:25 AM **Joerg Jaeckel**, IPPP/Durham University
Plenary Talk: Axions, WISPs and other stuff

11:25 AM - 11:50 AM **Aaron S Chou**, Fermilab
Plenary Talk: The Hunt for axions

11:50 AM - 12:15 PM **Leslie J Rosenberg**, University of Washington
Plenary Talk: Status of ADMX

12:15 PM - 2:00 PM *LUNCH*

2:00 PM - 2:15 PM *DESSERT & COFFEE*
(Wolf Point Reception area, 15th floor)

AFTERNOON PARALLEL SESSIONS

* **Direct Detection I**, *Convener: Christopher Savage* (Wolf Point Ballroom, 15th floor)

* **Indirect Detection I**, *Convener: Paolo Gondolo* (Western Stage room, 14th floor)

Tuesday - July 24, 2012

- 8:30 AM - 9:00 AM *CONTINENTAL BREAKFAST*
(Wolf Point Reception area, 15th floor)
- MORNING PLENARY SESSION I**
Convener: Carsten Krauss
(Wolf Point Ballroom, 15th floor)
- 9:00 AM - 9:25 AM **Riccardo Cerulli**, INFN-LNGS
Plenary Talk: Dark matter signal in DAMA/LIBRA
- 9:25 AM - 9:50 AM **Christian Strandhagen**, Kepler Center for Astro and Particle Physics Tuebingen University
Plenary Talk: The CRESST-II experiment - status update
- 9:50 AM - 10:15 AM **Juan Collar**, Kavli Institute for Cosmological Physics
Plenary Talk: New results from CoGeNT
- 10:15 AM - 10:45 AM *COFFEE BREAK*
(Wolf Point Reception area, 15th floor)
- MORNING PLENARY SESSION II**
Convener: Douglas Finkbeiner
(Wolf Point Ballroom, 15th floor)
- 10:45 AM - 11:10 AM **Joachim Kopp**, Fermilab
Plenary Talk: Direct detection of light WIMPs
- 11:10 AM - 11:35 AM **Jennifer Siegal-Gaskins**, Caltech
Plenary Talk: Dark matter searches with Fermi
- 11:35 AM - 12:00 PM **James Buckley**, Washington University
Plenary Talk: Dark matter searches with ACTs
- 12:00 PM - 12:25 PM **Stefano Profumo**, University of California, Santa Cruz
Plenary Talk: Fermi from a theorist's perspective
- 12:25 PM - 2:00 PM *LUNCH*
- 2:00 PM - 2:15 PM *DESSERT & COFFEE*
(Wolf Point Reception area, 15th floor)
- 2:15 PM - 6:00 PM **AFTERNOON PARALLEL SESSIONS**
* **Direct Detection II**, *Convener: Lauren Hsu* (Wolf Point Ballroom, 15th floor)
* **Indirect Detection II**, *Convener: James Buckley* (Western Stage room, 14th floor)
* **Particle Physics**, *Convener: Stefano Profumo* (Steamboat room, 14th floor)

Wednesday - July 25, 2012

- 8:30 AM - 9:00 AM *CONTINENTAL BREAKFAST*
(Wolf Point Reception area, 15th floor)
- MORNING PLENARY SESSION I**
Convener: Andrey Kravtsov
(Wolf Point Ballroom, 15th floor)
- 9:00 AM - 9:25 AM **Carlos S Frenk**, Durham University
Plenary Talk: Status of dark matter simulations
- 9:25 AM - 9:50 AM **Michael Kuhlen**, Theoretical Astrophysics Center, UC Berkeley
Plenary Talk: Status of dark matter simulations
- 9:50 AM - 10:15 AM **Daniel P. Snowden-Ifft**, Occidental College
Plenary Talk: Overview of directional dark matter detectors
- 10:15 AM - 10:45 AM *COFFEE BREAK*
(Wolf Point Reception area, 15th floor)
- MORNING PLENARY SESSION II**
Convener: Hans Kraus
(Wolf Point Ballroom, 15th floor)
- 10:45 AM - 11:10 AM **Carsten B Krauss**, University of Alberta
Plenary Talk: Constraints on low-mass WIMPs from PICASSO
- 11:10 AM - 11:35 AM **Yoichiro Suzuki**, Kamioka Observatory, ICRR, U. of Tokyo
Plenary Talk: The XMASS Experiment
- 11:35 AM - 12:00 PM **Annika Peter**, UC Irvine
Plenary Talk: Astrophysical uncertainties in dark matter detection
- 12:00 PM - 12:25 PM **Kevoork N. Abazajian**, University of California, Irvine
Plenary Talk: Status of sterile neutrino dark matter
- 12:25 PM - 2:00 PM *LUNCH*
- 2:00 PM - 2:15 PM *DESSERT & COFFEE*
(Wolf Point Reception area, 15th floor)
- 2:15 PM - 6:00 PM **AFTERNOON PARALLEL SESSIONS**
* **Direct Detection III**, *Convener: Vitaly Kudryavtsev* (Wolf Point Ballroom, 15th floor)
* **Particle Physics/Direct Detection I**, *Convener: Matthew Buckley* (Western Stage room, 14th floor)

Thursday - July 26, 2012

8:30 AM - 9:00 AM *CONTINENTAL BREAKFAST*
(Wolf Point Reception area, 15th floor)

MORNING PLENARY SESSION I*Convener: Lars Bergstrom*

(Wolf Point Ballroom, 15th floor)

9:00 AM - 9:25 AM **Tim M.P. Tait**, University of California, Irvine
Plenary Talk: Dark matter searches at the LHC (theory)

9:25 AM - 9:50 AM **Daniel Whiteson**, UC Irvine
Plenary Talk: Dark Matter searches at the LHC (experiment)

9:50 AM - 10:15 AM **Matthew Reece**, Harvard University
Plenary Talk: Supersymmetry: Where Do We Stand?

10:15 AM - 10:45 AM *COFFEE BREAK*
(Wolf Point Reception area, 15th floor)

"Meet and Greet" the editors of the Physics of the Dark Universe journal (Elsevier Table, Wolf Point Registration Area, 15th floor). Editors will also be available from 2:15 PM - 2:45 PM.

MORNING PLENARY SESSION II*Convener: Daniel Snowden-Ifft*

(Wolf Point Ballroom, 15th floor)

10:45 AM - 11:10 AM **Karen Gibson**, Case Western Reserve University
Plenary Talk: The LUX Experiment

11:10 AM - 11:35 AM **Richard N Saldanha**, LNGS, Italy
Plenary Talk: Status of Darkside

11:35 AM - 12:00 PM **Andrew Hime**, Los Alamos National Laboratory
Plenary Talk: CLEAN Detection of Dark Matter

12:00 PM - 2:00 PM *LUNCH*

2:00 PM - 2:15 PM *DESSERT & COFFEE*
(Wolf Point Reception area, 15th floor)

2:15 PM - 5:35 PM **AFTERNOON PARALLEL SESSIONS**
* **Direct Detection IV**, *Convener: Viktor Zacek* (Wolf Point Ballroom, 15th floor)
* **Indirect Detection III**, *Convener: Douglas Spolyar* (Western Stage room, 14th floor)

DINNER

at the Adler Planetarium, 1300 South Lake Shore Drive, Chicago, IL 60605

5:45 PM *SHUTTLES BOARD*
Shuttle buses will be parked just East of the Holiday Inn Mart Plaza entrance on Orleans Street

6:00 PM	<i>SHUTTLES DEPART</i> for the Adler Planetarium
6:30 PM - 7:30 PM	<i>HORS D'OEUVRES</i>
7:30 PM - 9:30 PM	<i>DINNER</i>
10:00 PM	<i>SHUTTLES BOARD</i> in front of the Adler Planetarium main entrance
10:15 PM	<i>SHUTTLES DEPART & RETURN</i> to the Holiday Inn Mart Plaza

Friday - July 27, 2012

- 8:30 AM - 9:00 AM *CONTINENTAL BREAKFAST*
(Wolf Point Reception area, 15th floor)
- 9:00 AM - 12:00 PM **MORNING PARALLEL SESSIONS**
* **Particle Physics/Direct Detection II**, *Convener: Joakim Edsjo* (Wolf Point Ballroom, 15th floor)
* **Structure and Stars**, *Convener: Carlos Frenk* (Steamboat room, 14th floor)
* **Indirect Detection IV**, *Convener: Mariangela Lisanti* (Western Stage room, 14th floor)
- 12:00 PM - 1:45 PM *LUNCH*
- 1:45 PM - 2:00 PM *DESSERT & COFFEE*
(Wolf Point Reception area, 15th floor)
- AFTERNOON PLENARY SESSION I**
Convener: Tim Tait
(Wolf Point Ballroom, 15th floor)
- 2:00 PM - 2:25 PM **Douglas P Finkbeiner**, Harvard University
Plenary Talk: Fermi jets and the 130 GeV line
- 2:25 PM - 2:50 PM **Andrei Kounine**, Massachusetts Institute of Technology
Plenary Talk: Status of AMS-02
- 2:50 PM - 3:15 PM **Marco Taoso**, University of British Columbia
Plenary Talk: Dark matter with radio telescopes
- 3:15 PM - 3:45 PM *COFFEE BREAK*
(Wolf Point Reception area, 15th floor)
- AFTERNOON PLENARY SESSION II**
Convener: Rocky Kolb
(Wolf Point Ballroom, 15th floor)
- 3:45 PM - 4:10 PM **Carsten Rott**, Ohio State University / CCAPP
Plenary Talk: Latest Results from IceCube
- 4:10 PM - 4:35 PM **Gianfranco Bertone**, University of Amsterdam
Plenary Talk: Summary Talk