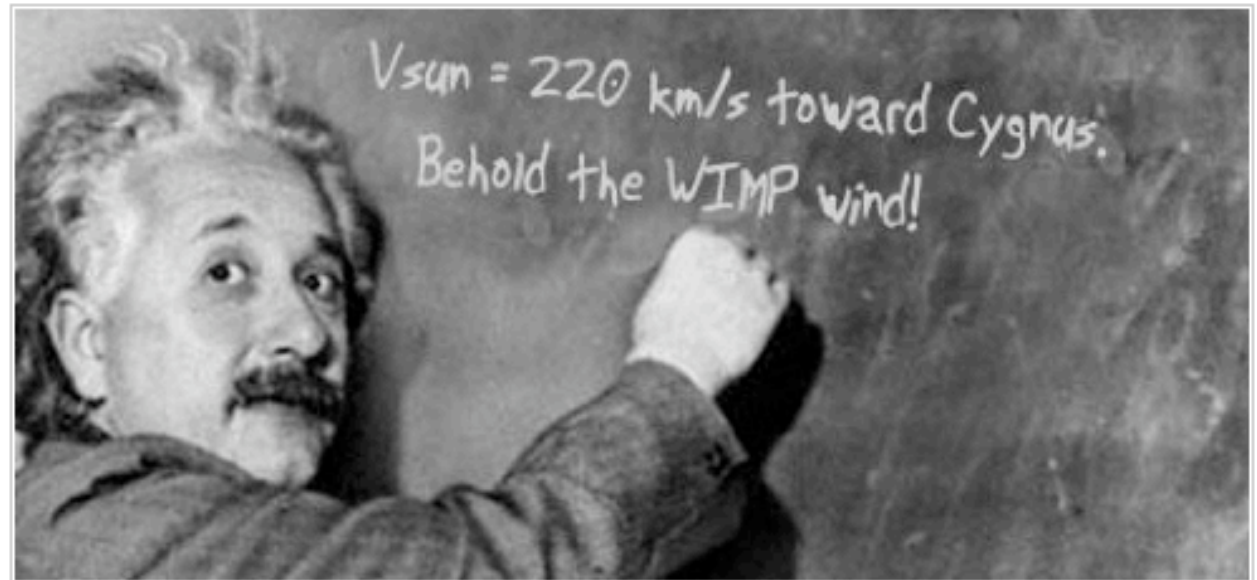


Welcome to



CYGNUS 2009

Directional Dark Matter Detection



Massachusetts Institute of Technology
June 11-13, 2009

Gabriella Sciolla (MIT)

Goals and format of Cygnus 2009

The Cygnus series

- Cygnus 2007 in Boulby Underground Laboratory, UK

Goals

- Bring together the international Directional DM community
 - Theorists and experimentalists
 - Particle physicists and astronomers
- Discuss progress, share information
- Coordinate efforts toward a large directional dark matter experiment

Format

- Inexpensive: no conference fee -- less donuts but more people
- Workshop: questions are welcome, discussions encouraged
- One short term goal: a white paper by the end of this week (James)

<http://web.mit.edu/cygnus2009/program.html>

Agenda

Thursday, June 11 (8:00-9:00 Registration)

9:00-10:30 *Session I: Motivation for Directional Detection*

11:00-12:30 *Session II: Theoretical Interpretation of Recent Results and Consequences
for Directional Searches*

2:00-3:30 *Session III: Directional Dark Matter Experiments I*

4:00-5:30 *Session IV: Directional Dark Matter Experiments II*

6:30 Workshop Dinner

Friday, June 12

9:00-10:30 *Session V: Directional Detection Reconstruction & Analysis Techniques*

11:00-12:30 *Session VI: Directional Detection R&D and Backgrounds*

2:00-3:30 *Session VII: Beyond Dark Matter with Directional Detectors*

4:00-5:30 *Session VIII: Dark Matter Astrophysics*

Saturday, June 13

9:00-10:30 *Session IX: Future Planning Discussion*

11:00-12:30 *Session X: White Paper Discussion*

Agenda change

Session I: Motivation for Directional Detection

Thursday, June 11

(chair: Prof. Gabriella Sciolla)

9:00 Welcome

Prof. Ed Bertschinger, MIT Department of Physics, Head

Prof. Gabriella Sciolla, Massachusetts Institute of Technology, USA

9:15 White Paper / Proceedings,

Dr. James Battat, Massachusetts Institute of Technology, USA

9:30 Motivation for Directional Detection I,

Prof. Ioannis (J.D.) Vergados, University of Ioannina, GR

10:00 Optimizing Directional Detectors,

Dr. Anne Green, University of Nottingham, UK

Combined
(Anne Green)

10:30 Coffee Break

Lunch/breakfast options

- Stratton Student Center (W20)
 - 1st floor: Anna's Taqueria, Cambridge Grill
 - 2nd floor: Food Court



- Stata Center Cafeteria (bldg 32)
 - Forbes Family Café (first floor)



- Food trucks on campus
 - Near Kendall T stop: Vietnamese, Middle Eastern
 - Near 77 Mass Avenue: Chinese

- Peet's
 - Lobby of bldg 7 (77 Mass Avenue)



Gabriella Sciolla – MIT

Workshop Dinner

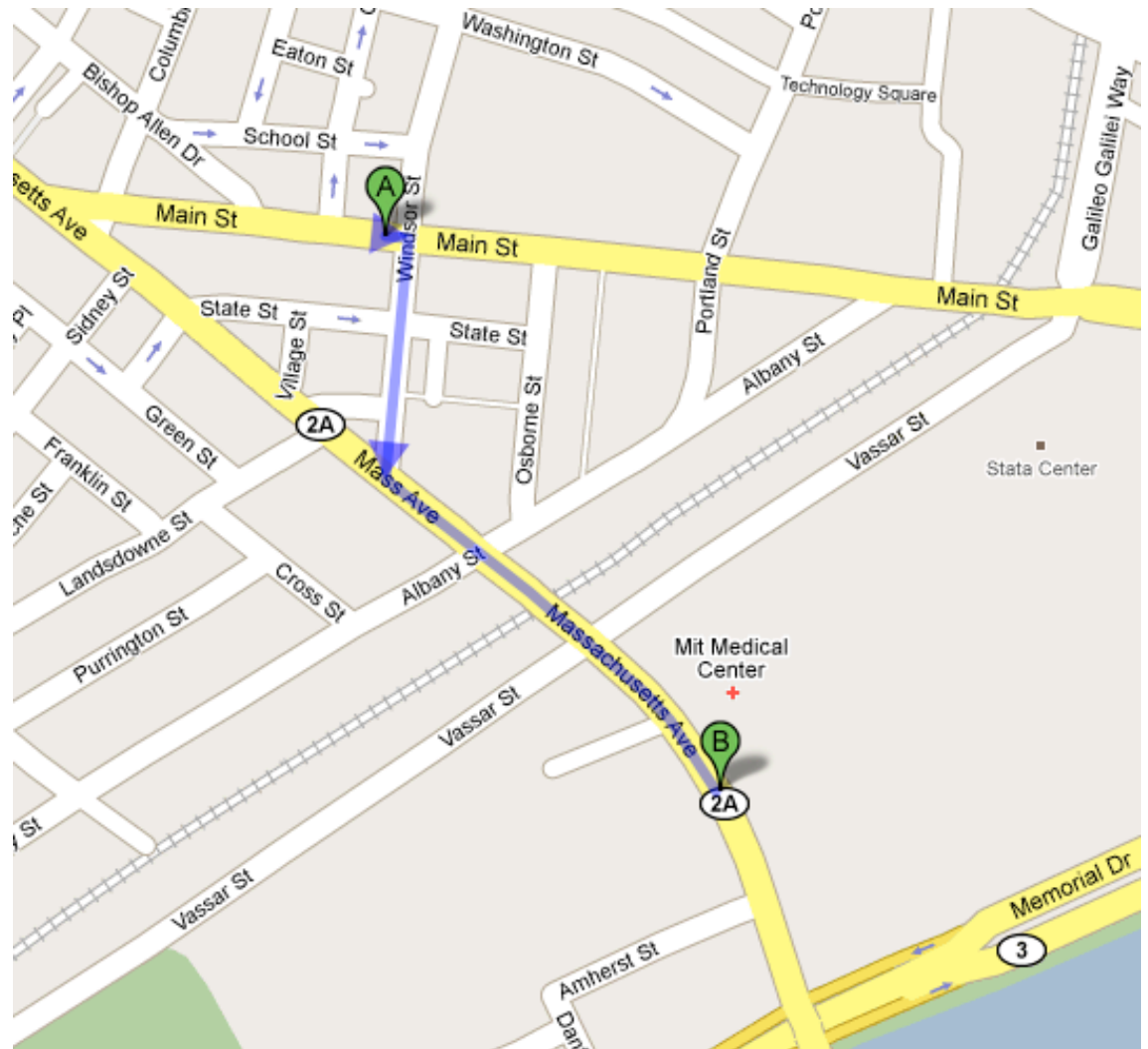
6:30 PM tonight at Royal East

792 Main St.,
Cambridge, MA
(617) 661-1660

\$20/person

Sign-up when you register

Gabriella Sciolla – MIT



Thanks to those who made Cygnus 2009 possible

- Sponsors
 - NSF, MIT Kavli Institute, Laboratory for Nuclear Science
- International Organizing Committee
 - White Paper contributors
- Local Organizing Committee
 - James Battat
 - Jocelyn Monroe
 - Sheela Hulsoor-Marston
 - Tan-Quy Tran
- Scientific Secretaries
 - Jeremy Lopez and Albert Lee (Talks)
 - Asher Kaboth, Shawn Henderson, Emily Krupczak, Hayk Yegoryan, Tom Caldwell (Registration desk)