

Fermi Summer School 2012

[School Schedule \(pdf\)](#)
[Schedule and Abstracts for Student Talks \(pdf\)](#)

Week 1

	Tues May 29	Wed May 30	Thu May 31	Fri June 1	Saturday June 2
9:00	The Fermi Mission - Julie McEnery	X-ray Obs. of the Crab - Weisskopf	SNRs - Hewitt	Diffuse - Digel	The Crab Pulsar from HE to VHE - Otte
10:00	The Fermi Sky 1 (steady) - Seth Digel The Fermi Sky 2 (variable) - Julie McEnery	Blazar Theory 1 (blackboard) - Markos Georganopoulos (Notes Part 1)	Cosmic-ray 2 Blasi	Cosmic-ray 3 - Blasi	Blazar Theory II - Georganopoulos (Notes part 2)
Break					
11:30	Cosmic-ray 1 - Pasquale Blasi	Fermi-GBM and spectral fitting - Michael Briggs	Fermi LAT overview - Luca Baldini	TGFs - Briggs	LAT Performance - Baldini
Lunch					
1:30pm	data exploration 1 - Jeremy Perkins	Basic likelihood - Perkins	Student Presentations	Student Presentations	Student Presentations
2:00pm	data exploration tutorial - Davide Donato		Advanced likelihood - Perkins Data: Photon / Spacecraft	Comments on Statistics - Briggs Homage to Becquerel - Briggs	LAT Simulations - Digel Imaging Atmospheric Cherenkov Tutorial - Otte data file ROOT macro file

Week 2

	Mon June 4	Tuesday June 5	Wed June 5	Thurs June 6	Fri June 7
9:00	Atmospheric Cherenkov Technique - Trevor Weekes	Crab History - Weekes	Observational Blazars II (pptx , pdf) - Marscher	High Energy Emission from Fermi LAT GRBs - Soebur Razzaque	Imaging Atmospheric Cherenkov Telescopes: Arrays and the Future - Otte
10:00	LAT Pulsars - Paul Ray	Observational Blazars I (pptx , pdf) - Alan Marscher	Blazar Theory IV - Georganopoulos (Notes Part 4)	Extragalactic CR Accel. and Prop. - Blasi	School Summary - Hays
11:00	Break				
11:30	Pulsars, PWNe, and Positrons - Blasi	SSC Model Fitting: I have a code and I'm not afraid to use it - Georganopoulos Model code (.tar.gz) SSC parameter notes	Water Cherenkov Technique I - Andy Smith	Detector Physics - Otte	Workshop Summary
12:30	Lunch				
1:30	1 Slide Presentations	1 Slide Presentations	1 Slide Presentations	1 Slide Presentations	
2:00	Blazar Theory III - Georganopoulos (Notes Part 3) LAT Pulsar Phase Tutorial - Ray	SED Tutorial (txt1 , txt2) - Marscher Venus Transit Venus Transit in SDO live data site	LAT Tutorial on Energy Dispersion - Luca Baldini (and solutions to the exercises)	Water Cherenkov Technique II - Smith	

Student Presentations

Sandra de Jong - [The hybrid AGN core of 3C 111](#) ([Abstract](#))
Michael Dutka - [Multi-wavelength Observations of PKS 2142-75 during an Active and Quiescent Gamma-Ray State](#) ([Abstract](#))
Sajan Kumar - [The VERITAS Upgrade](#) ([Abstract](#))
Tova Yoast-Hull - [A Model for Cosmic Ray Interactions in M82](#) ([Abstract](#))
Brendan Wells - [Improving Fermi Resolution to Probe for the Intergalactic Magnetic Field](#) ([Abstract](#))
Nahee Park - [Multi-TeV Electron Measurement with the CREST Experiment](#)
Dmitry Prokhorov - [Calculations in GALPROP WebRun and applications for the analysis of the Fermi-LAT data](#)

1 Slide Summaries

Chris Anelli
Ralph Bird
Francesco Borracchi
Carolina Casadio
James Casey
Jacob Daughhetee (IceCube event movie avi)
Simone Dichiara
Sean Griffen]
Caitlin Johnson
Sol Molina
Paul Moran
Alexis Popkow
Greg Richards
Sheetal Saxena
Karlen Shahinyan
Christian Skole
Dylan Kee