

IceCube Bootcamp: Summer 2016

Report of Contributions

Contribution ID: 0

Type: **not specified**

Particle Astrophysics and Neutrinos

Monday, 13 June 2016 09:30 (45 minutes)

IceCube science

Primary author: AHLERS, Markus (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Presenter: AHLERS, Markus (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Introduction to WIPAC / IceCube

Contribution ID: **1**

Type: **not specified**

The IceCube Detector

Monday, 13 June 2016 10:15 (45 minutes)

Primary author: Dr HANSON, Kael (University of Wisconsin)

Presenter: Dr HANSON, Kael (University of Wisconsin)

Session Classification: Introduction to WIPAC / IceCube

Contribution ID: 2

Type: **not specified**

Welcome to WIPAC

Monday, 13 June 2016 09:00 (30 minutes)

Primary author: Dr HANSON, Kael (University of Wisconsin)

Presenter: Dr HANSON, Kael (University of Wisconsin)

Session Classification: Introduction to WIPAC / IceCube

Contribution ID: 3

Type: **not specified**

Simprod

Wednesday, 15 June 2016 09:00 (1 hour)

Presenters: Dr OLIVAS, Alex (o=umd,ou=Institutions,dc=icecube,dc=wisc,dc=edu); DIAZ-VELEZ, Juan Carlos (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Simulation and Weighting

Contribution ID: 4

Type: **not specified**

MC Weighting

Wednesday, 15 June 2016 10:00 (45 minutes)

Primary author: GHORBANI, Kevin (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Presenter: GHORBANI, Kevin (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Simulation and Weighting

Contribution ID: 5

Type: **not specified**

Steamshovel artists

Thursday, 16 June 2016 14:30 (20 minutes)

Presenter: SCHULTZ, David (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Guided projects continued

Contribution ID: 6

Type: **not specified**

Graduate student essentials

Thursday, 16 June 2016 14:50 (20 minutes)

MC variables, weighting, simprod scripting, ..

Presenter: JERO, Kyle (o=uwrf,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Guided projects continued

Contribution ID: 7

Type: **not specified**

Event Reconstruction

Thursday, 16 June 2016 15:10 (20 minutes)

Presenter: Dr XU, Donglian (University of Wisconsin-Madison)

Session Classification: Guided projects continued

Contribution ID: 8

Type: **not specified**

Advanced Statistics

Thursday, 16 June 2016 15:30 (20 minutes)

Ensemble construction, limit setting, frequentist/bayesian, forward folding, unfolding, Brazilian plot, Asimov test, etc

Primary author: Dr ARGUELLES, Carlos (o=mit,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Co-authors: KHEIRANDISH, Ali (o=research,ou=Institutions,dc=icecube,dc=wisc,dc=edu); COLLIN, Gabriel (o=mit,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Presenter: Dr ARGUELLES, Carlos (o=mit,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Guided projects continued

Contribution ID: 9

Type: **not specified**

HESE veto

Thursday, 16 June 2016 15:50 (20 minutes)

Presenter: GHORBANI, Kevin (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Guided projects continued

Contribution ID: **10**

Type: **not specified**

Simulations

Thursday, 16 June 2016 16:10 (20 minutes)

Presenters: Dr OLIVAS, Alex (o=umd,ou=Institutions,dc=icecube,dc=wisc,dc=edu); DIAZ-VELEZ, Juan Carlos (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Guided projects continued

Contribution ID: **11**

Type: **not specified**

Flasher analysis

Sunday, 12 June 2016 14:00 (1h 35m)

Presenter: Prof. WILLIAMS, Dawn (University of Alabama)

Session Classification: Flasher data analysis

Contribution ID: 12

Type: **not specified**

introduction to python and shell

Saturday, 11 June 2016 09:00 (3 hours)

Presenter: BOURBEAU, James (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Computing basics

Contribution ID: 13

Type: **not specified**

Pretty plotting

Sunday, 12 June 2016 09:00 (2 hours)

Presenter: CHEUNG, Elim (o=umd,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Computing basics

Contribution ID: 14

Type: **not specified**

numpy, scipy, condor

Saturday, 11 June 2016 14:00 (3 hours)

Presenter: JERO, Kyle (o=uwrf,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Introduction to numpy, scipy, and condor

Contribution ID: 15

Type: **not specified**

Exercises:plotting, submitting jobs to condor..

Sunday, 12 June 2016 11:00 (1 hour)

Presenter: SCHNEIDER, Austin (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Computing basics

Contribution ID: **16**

Type: **not specified**

Introduction to physics analyses in IceCube

Thursday, 16 June 2016 09:00 (35 minutes)

Presenter: Dr XU, Donglian (University of Wisconsin-Madison)

Session Classification: Introduction to physics analyses in IceCube

Contribution ID: 17

Type: **not specified**

Introduction to physics analyses in IceCube-DeepCore

Thursday, 16 June 2016 09:35 (25 minutes)

Presenter: TOBIN, Moriah (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Introduction to physics analyses in IceCube

Contribution ID: **18**

Type: **not specified**

Veto Techniques

Thursday, 16 June 2016 10:00 (40 minutes)

Presenter: KARLE, Albrecht (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Introduction to physics analyses in IceCube

Contribution ID: **19**

Type: **not specified**

Distributed computing

Wednesday, 15 June 2016 11:00 (1h 30m)

Presenter: MERINO, Gonzalo (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Distributed computing

Contribution ID: 20

Type: **not specified**

Statistics basics

Thursday, 16 June 2016 11:00 (1h 30m)

Presenter: CHIRKIN, Dmitry (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Statistics basics

Contribution ID: **21**

Type: **not specified**

Surviving IceCube

Friday, 17 June 2016 14:00 (30 minutes)

Presenter: Dr TOSI, Delia (UW Madison)

Session Classification: Surviving IceCube

Contribution ID: 22

Type: **not specified**

Event Reconstructions

Wednesday, 15 June 2016 14:30 (1h 30m)

Presenter: Dr TOSI, Delia (UW Madison)

Session Classification: Event Reconstructions

Contribution ID: 23

Type: **not specified**

Triggering, Filtering, and Transmission

Tuesday, 14 June 2016 09:00 (1 hour)

Presenter: KELLEY, John (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Triggering, Filtering, and Transmission

Contribution ID: 24

Type: **not specified**

Modeling the South Pole ice

Tuesday, 14 June 2016 10:00 (30 minutes)

Presenter: CHIRKIN, Dmitry (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Modeling the South Pole ice

Contribution ID: 25

Type: **not specified**

Atmospheric neutrinos and muons

Tuesday, 14 June 2016 10:45 (30 minutes)

Presenter: WILLE, Logan (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Atmospheric neutrinos and muons

Contribution ID: 26

Type: **not specified**

Visualizing IceCube Events: i3 files, dataio-pyshovel, steamshovel, etc

Monday, 13 June 2016 12:00 (45 minutes)

Primary author: GRIFFITH, Zachary (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Visualizing IceCube Events

Contribution ID: 27

Type: **not specified**

Simulating flashers

Sunday, 12 June 2016 15:55 (1h 5m)

Presenter: SEUNARINE, Suruj (o=uwrf,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Flasher data analysis

Contribution ID: 28

Type: **not specified**

SVN, docs

Monday, 13 June 2016 14:15 (1h 45m)

Presenter: Dr OLIVAS, Alex (o=umd,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: IceCube software

Contribution ID: 29

Type: **not specified**

IceTray

Tuesday, 14 June 2016 11:15 (1h 15m)

Presenter: Dr OLIVAS, Alex (o=umd,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: IceTray framework

Contribution ID: **30**

Type: **not specified**

Event Reconstruction

Friday, 17 June 2016 14:30 (20 minutes)

Session Classification: Presentations

Contribution ID: **31**

Type: **not specified**

IceTray

Tuesday, 14 June 2016 14:00 (1h 30m)

Session Classification: IceTray framework

Contribution ID: **32**

Type: **not specified**

IceTray Exercise

Tuesday, 14 June 2016 16:00 (20 minutes)

Session Classification: Exercise