

IceCube Bootcamp: Summer 2012

Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome to IceCube

Monday, 11 June 2012 09:00 (30 minutes)

Session Classification: Morning Session

Contribution ID: 1

Type: **not specified**

Introduction to Cosmic Rays, IceCube and Neutrinos

Monday, 11 June 2012 09:30 (1h 30m)

Presenter: WESTERHOFF, Stefan (University of Wisconsin–Madison)

Session Classification: Morning Session

Contribution ID: 2

Type: **not specified**

Get connected

Monday, 11 June 2012 11:00 (1h 30m)

LDAP accounts, connecting to pub, connecting to the wiki, i3live, ...

also: start compiling IceTray on the cobalt nodes (over lunch)

Session Classification: Morning Session

Contribution ID: 3

Type: **not specified**

From the particle to the PMT at the South Pole: Overview

Tuesday, 12 June 2012 09:00 (1 hour)

Presenter: Mr KRASBERG, Mark (university of wisconsin)

Session Classification: Morning Session

Contribution ID: 4

Type: **not specified**

Particle Physics: from the neutrino to Cherenkov light

Tuesday, 12 June 2012 10:00 (1 hour)

neutrino interactions, cross sections, muons in water, Cherenkov light, ...

Presenter: CHIRKIN, Dmitry (UW Madison)

Session Classification: Morning Session

Contribution ID: 5

Type: **not specified**

Muon Coincidence Detector project ??

Presenter: WHITEHORN, Nathan (University of Wisconsin–Madison)

Contribution ID: 6

Type: **not specified**

DOMs, DAQ, triggers and filters

Wednesday, 13 June 2012 09:00 (2 hours)

what do these things mean: “ATWD”, “FADC”, “Filter”, “TFT board”, “pDAQ”, “SMT8”, “PnF”, “muon filter”, “cascade filter”, “EHE filter”

why would I need a filter? what data gets sent North?

Presenter: Mr KELLEY, John (UW-Madison)

Session Classification: Morning Session

Contribution ID: 7

Type: **not specified**

Physics: point sources

Presenter: FEINTZEIG, Jacob (University of Wisconsin–Madison)

Contribution ID: 8

Type: **not specified**

processing levels and .i3 file contents

what is “L2”, “L3” processing?

using an existing i3 file:

what’s in there? explain “SPE”, “MPE”, “ToI”, “LF”, “improved LF”, “Millipede”, “MuE”, “MuEx”, ...

Contribution ID: 9

Type: **not specified**

Simulation

Thursday, 14 June 2012 09:00 (1h 30m)

what are “nugen”, “GENIE”, “CORSIKA”?

why do we need “MMC”?

what do “PPC” and “photonics” do?

Presenter: DIAZ-VELEZ, Juan Carlos (University of Wisconsin - Madison)

Session Classification: Morning Session

Contribution ID: **10**

Type: **not specified**

Physics: Diffuse!

Contribution ID: **11**

Type: **not specified**

Physics: Oscillations

Presenter: GLADSTONE, Laura (University of Wisconsin–Madison)

Contribution ID: 12

Type: **not specified**

Analysis methods: Cosmic Rays

Monday, 18 June 2012 09:00 (1 hour)

Presenter: SANTANDER, Marcos (University of Wisconsin–Madison)

Session Classification: Morning Session

Contribution ID: 13

Type: **not specified**

using npx3/npx2: Condor, DAGMAN, ...

Friday, 15 June 2012 11:30 (1 hour)

Presenter: Mr SKARLUPKA, Heath (UW Madison IceCube)

Session Classification: Morning Session

Contribution ID: 14

Type: **not specified**

Statistics, Limits, Confidence Intervals, ...

Presenter: WEAVER, Chris (University of Wisconsin–Madison)

Contribution ID: 15

Type: **not specified**

Physics: CR acceleration, sources, ...

Wednesday, 13 June 2012 11:00 (1h 30m)

should cover fermi acceleration, source types, ...

Presenter: AHLERS, Markus (University of Oxford)

Session Classification: Morning Session

Contribution ID: **16**

Type: **not specified**

Monitoring / I3Live

Monday, 18 June 2012 11:00 (1h 30m)

a short tutorial on monitoring on a live run by the Madison monitoring shifter

Presenter: RIEDEL, Benedikt (University of Wisconsin–Madison)

Session Classification: Morning Session

Contribution ID: 17

Type: **not specified**

Ice Models

Tuesday, 19 June 2012 09:00 (1 hour)

Session Classification: Morning Session

Contribution ID: **18**

Type: **not specified**

WIPAC Research: ARA

Tuesday, 19 June 2012 10:00 (45 minutes)

Presenter: KARLE, Albrecht (UW Madison)

Session Classification: Morning Session

Contribution ID: **19**

Type: **not specified**

WIPAC Research: HAWC

Tuesday, 19 June 2012 10:45 (45 minutes)

Presenter: Mr HAMPEL-ARIAS, Zigfried (UW Madison)

Session Classification: Morning Session

Contribution ID: 20

Type: **not specified**

WIPAC Research: DM-Ice

Tuesday, 19 June 2012 11:30 (45 minutes)

Presenter: HUBBARD, Antonia (University of Wisconsin–Madison)

Session Classification: Morning Session

Contribution ID: 21

Type: **not specified**

Write a reconstruction! (linefit)

Presenter: WHITEHORN, Nathan (University of Wisconsin–Madison)

Contribution ID: 22

Type: **not specified**

Statistics, Limits, Confidence Intervals, ...

Presenter: WEAVER, Chris (University of Wisconsin–Madison)

Contribution ID: 23

Type: **not specified**

processing levels and .i3 file contents

what is “L2”, “L3” processing?

using an existing i3 file:

what’s in there? explain “SPE”, “MPE”, “ToI”, “LF”, “improved LF”, “Millipede”, “MuE”, “MuEx”, ...

Presenter: FEINTZEIG, Jacob (University of Wisconsin–Madison)

Contribution ID: 24

Type: **not specified**

Analysis methods: Point Sources

Friday, 15 June 2012 10:30 (1 hour)

Presenter: FEINTZEIG, Jacob (University of Wisconsin–Madison)

Session Classification: Morning Session

Contribution ID: 25

Type: **not specified**

Analysis methods: Diffuse & Oscillations

Friday, 15 June 2012 09:00 (1h 30m)

Presenter: Dr HILL, Gary (UW Madison)

Session Classification: Morning Session

Contribution ID: 26

Type: **not specified**

Physics/analysis: supernovae

Monday, 18 June 2012 10:00 (1 hour)

Presenter: RIEDEL, Benedikt (University of Wisconsin–Madison)

Session Classification: Morning Session