

# **IceCube Bootcamp: Summer 2020**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Welcome and Introduction

Contribution ID: 1

Type: **not specified**

## IceCube Science

Contribution ID: 2

Type: **not specified**

## IceCube in MMA

Contribution ID: 3

Type: **not specified**

## IceCube Detector

Contribution ID: 4

Type: **not specified**

## Computer Setup

Contribution ID: 5

Type: **not specified**

## Intro to Python

Contribution ID: 6

Type: **not specified**

## Advanced Plotting

*Monday, 15 June 2020 13:30 (1h 30m)*

### Summary

**Presenter:** HUSSAIN, Raamis (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** General Computing

Contribution ID: 7

Type: **not specified**

## IceTray

Contribution ID: 8

Type: **not specified**

## IceCube Science

*Monday, 15 June 2020 09:35 (30 minutes)*

### Summary

**Presenter:** HALZEN, Francis (University of Wisconsin-Madison)

**Session Classification:** Science

Contribution ID: 9

Type: **not specified**

## IceCube in MMA

*Monday, 15 June 2020 10:35 (30 minutes)*

### Summary

**Presenter:** Dr DESAI, Abhishek (University of Wisconsin-Madison)

**Session Classification:** Science

Contribution ID: **10**

Type: **not specified**

## **IceCube Detector**

*Monday, 15 June 2020 09:05 (30 minutes)*

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

**Session Classification:** Science

Contribution ID: 11

Type: **not specified**

## Triggering and Filtering

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

**Session Classification:** IceCube Software

Contribution ID: 12

Type: **not specified**

## Event Reconstruction

*Tuesday, 16 June 2020 09:30 (30 minutes)*

### Summary

**Presenter:** TY, Bunheng (University of Wisconsin-Madison)

**Session Classification:** IceCube Software

Contribution ID: 13

Type: **not specified**

## Intro to Icetray

*Tuesday, 16 June 2020 10:30 (1h 30m)*

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

**Session Classification:** IceCube Software

Contribution ID: 14

Type: **not specified**

## Calibration and Flasher

*Tuesday, 16 June 2020 13:30 (2 hours)*

**Presenters:** Prof. WILLIAMS, Dawn (o=ua,ou=Institutions,dc=icecube,dc=wisc,dc=edu); CHIRKIN, Dmitry (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** IceCube Software

Contribution ID: 15

Type: **not specified**

## Calibration II

*Tuesday, 16 June 2020 16:00 (30 minutes)*

**Presenter:** Prof. WILLIAMS, Dawn (o=ua,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** IceCube Software

Contribution ID: 16

Type: **not specified**

## **I3File Tools and Visualization**

*Tuesday, 16 June 2020 16:30 (1 hour)*

**Presenter:** Mr MEAGHER, Kevin (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** IceCube Software

Contribution ID: 17

Type: **not specified**

## Computer Setup

*Monday, 15 June 2020 11:05 (55 minutes)*

**Presenter:** COMERFORD, Dennis (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** General Computing

Contribution ID: **18**

Type: **not specified**

## **Intro to Python**

*Monday, 15 June 2020 13:30 (2 hours)*

### **Summary**

**Presenter:** PIZZUTO, Alex (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** General Computing

Contribution ID: **19**

Type: **not specified**

## Neutrino Physics

*Monday, 15 June 2020 16:00 (30 minutes)*

### Summary

**Presenter:** LEONARD, Kayla (o=uwmad,ou=Institutions,dc=icecube,dc=wisconsin,dc=edu)

**Session Classification:** Science

Contribution ID: 20

Type: **not specified**

## Radio Detection of Neutrinos

*Tuesday, 16 June 2020 09:00 (20 minutes)*

### Summary

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

**Session Classification:** Science

Contribution ID: 22

Type: **not specified**

## CTA and IACT

*Thursday, 18 June 2020 13:30 (30 minutes)*

**Presenter:** MODE, Brent (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Science

Contribution ID: 23

Type: **not specified**

## Distributed Computing

*Wednesday, 17 June 2020 10:30 (1h 30m)*

**Presenter:** Mr MEAGHER, Kevin (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** General Computing

Contribution ID: 24

Type: **not specified**

## Intro to Statistics

*Wednesday, 17 June 2020 13:30 (2 hours)*

### Summary

**Presenters:** HUSSAIN, Raamis (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu); LUSZCZAK, William (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Analysis

Contribution ID: 25

Type: **not specified**

## Frequentist and Bayesian Methods

*Wednesday, 17 June 2020 13:30 (2 hours)*

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

**Session Classification:** Analysis

Contribution ID: 26

Type: **not specified**

## Software Best Practices

*Thursday, 18 June 2020 16:30 (30 minutes)*

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

**Session Classification:** General Computing

Contribution ID: 27

Type: **not specified**

## Current Student Work

*Thursday, 18 June 2020 09:00 (30 minutes)*

### Summary

**Presenter:** HUSSAIN, Raamis (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Analysis

Contribution ID: 28

Type: **not specified**

## Point Sources I

*Thursday, 18 June 2020 14:00 (1 hour)*

**Presenter:** LUSZCZAK, William (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Analysis

Contribution ID: 29

Type: **not specified**

## Point Sources II

*Friday, 19 June 2020 11:00 (1 hour)*

**Presenter:** LUSZCZAK, William (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Analysis

Contribution ID: **30**

Type: **not specified**

## **Presentation Best Practices**

**Presenter:** MANCINA, Sarah (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Analysis

Contribution ID: 31

Type: **not specified**

## Event Selections and Machine Learning

**Presenters:** PIZZUTO, Alex (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu); SILVA, Manuel (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Analysis

Contribution ID: 33

Type: **not specified**

## Diffuse II

*Friday, 19 June 2020 09:00 (1h 30m)*

**Presenters:** SAFA, Ibrahim (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu); SILVA, Manuel (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Analysis

Contribution ID: **34**

Type: **not specified**

## Presentations

**Session Classification:** Analysis

Contribution ID: 35

Type: **not specified**

## Diffuse I

*Thursday, 18 June 2020 15:30 (1 hour)*

**Presenters:** SAFA, Ibrahim (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu); SILVA, Manuel (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Analysis

Contribution ID: 36

Type: **not specified**

## Simulation and Weighting

*Wednesday, 17 June 2020 16:00 (1 hour)*

### Summary

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

**Session Classification:** IceCube Software

Contribution ID: 39

Type: **not specified**

## Computer Setup

**Presenter:** COMERFORD, Dennis (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** General Computing

Contribution ID: 40

Type: **not specified**

## Distributed Computing

*Wednesday, 17 June 2020 09:30 (30 minutes)*

**Presenter:** Mr MEAGHER, Kevin (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** General Computing

Contribution ID: 42

Type: **not specified**

## Event Selections and BDTs

*Thursday, 18 June 2020 09:30 (30 minutes)*

### Summary

**Presenter:** SILVA, Manuel (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Analysis

Contribution ID: 43

Type: **not specified**

## Science: South Pole

*Thursday, 18 June 2020 10:30 (30 minutes)*

### Summary

**Presenter:** DUVERNOIS, Michael (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Science

Contribution ID: 44

Type: **not specified**

## Non-IceCube Experiments

*Thursday, 18 June 2020 12:30 (30 minutes)*

### Summary

**Presenter:** DESAI, Abhishek (University of Wisconsin-Madison)

**Session Classification:** Science

Contribution ID: 46

Type: **not specified**

## Analyses in IceCube

*Wednesday, 17 June 2020 09:00 (30 minutes)*

### Summary

**Presenter:** LEONARD, Kayla (o=uwmad,ou=Institutions,dc=icecube,dc=wisconsin,dc=edu)

**Session Classification:** Science

Contribution ID: 47

Type: **not specified**

## IceCube: Gen 2

*Thursday, 18 June 2020 13:00 (30 minutes)*

### Summary

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

**Session Classification:** Science

Contribution ID: 49

Type: **not specified**

## Intodruction to Statistics

*Monday, 15 June 2020 16:30 (1 hour)*

### Summary

**Presenter:** MANCINA, Sarah (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

**Session Classification:** Science