

Diffuse Workshop on Global Fit

Report of Contributions

Contribution ID: 1

Type: **not specified**

Workshop overview

Saturday, 14 September 2019 10:30 (10 minutes)

Presenter: LU, Lu (Chiba U.)

Session Classification: Welcome

Contribution ID: 2

Type: **not specified**

ERI and surroundings

Saturday, 14 September 2019 10:40 (10 minutes)

Presenter: TAKETA, Akimichi (ERI)

Session Classification: Welcome

Contribution ID: 3

Type: **not specified**

Honda model

Saturday, 14 September 2019 11:25 (35 minutes)

past and future; comparison with muon measurements.

Presenters: MENJO, Hiroaki (Nagoya University); SATO, Kazufumi (Nagoya University)

Session Classification: Atmospheric modeling and messages from theorists

Contribution ID: 4

Type: **not specified**

MCEq and a universal treatment for systematic errors

Saturday, 14 September 2019 12:00 (35 minutes)

Presenter: FEDYNITCH, Anatoli (ICRR)

Session Classification: Atmospheric modeling and messages from theorists

Contribution ID: 5

Type: **not specified**

Production of high energy neutrinos in the atmosphere - charm and sibyll2.3C

Saturday, 14 September 2019 12:35 (35 minutes)

(remote) + news of hadronic interaction uncertainties

Presenter: RIEHN, Felix (University of Santiago de Compostela)

Session Classification: Atmospheric modeling and messages from theorists

Contribution ID: 7

Type: **not specified**

Diffuse models from 1 TeV to 1 EeV

Saturday, 14 September 2019 14:30 (35 minutes)

Presenter: Dr HE, Haoning (Riken)

Session Classification: Theory and status of IceCube diffuse analyses

Contribution ID: 8

Type: **not specified**

Overview of IceCube diffuse analyses in light of global-fit

Saturday, 14 September 2019 15:05 (30 minutes)

which features to include in the global fit? summary of techniques for tau/hadronic shower/ghashow resonance/inelasticity and how to combine to an ultimate global-fit? what are the challenges?

Presenters: KOPPER, Claudio (MSU); WHITEHORN, Nathan (UCLA)

Session Classification: Theory and status of IceCube diffuse analyses

Contribution ID: 9

Type: **not specified**

Diffuse numu + HESE consistency checks and combined fit

Saturday, 14 September 2019 15:35 (30 minutes)

public -> method only.

Presenters: STETTNER, Joeran (RWTH Aachen); GANSTER, Erik (RWTH Aachen); SCHNEIDER, Austin (UW Madison)

Session Classification: Theory and status of IceCube diffuse analyses

Contribution ID: **10**

Type: **not specified**

Discussions and concluding remarks

Saturday, 14 September 2019 16:05 (30 minutes)

The end of the public part of the workshop.

Presenters: KOPPER, Claudio (MSU); WHITEHORN, Nathan (UCLA)

Session Classification: Theory and status of IceCube diffuse analyses

Contribution ID: 11

Type: **not specified**

Service tasks related to global-fit

Saturday, 14 September 2019 16:50 (15 minutes)

Presenter: LU, Lu (Chiba U.)

Session Classification: Preparation for Hackathon

Contribution ID: 12

Type: **not specified**

Multi-sim status

Saturday, 14 September 2019 17:05 (15 minutes)

Hands-on, test samples, hackathon topic

Presenters: SMITHERS, Benjamin (UT Arlington); KOPPER, Claudio (MSU)

Session Classification: Preparation for Hackathon

Contribution ID: 13

Type: **not specified**

X-section analysis with NNM-fit

Saturday, 14 September 2019 18:35 (15 minutes)

hackathon topic (fitters)

Presenter: ROBERTSON, Sally (Berkeley)

Session Classification: Preparation for Hackathon

Contribution ID: 14

Type: **not specified**

Status of MESE

Saturday, 14 September 2019 17:50 (15 minutes)

what sub projects are missing? hackathon topic

Presenter: SCHNEIDER, Austin (U.W. Madison)

Session Classification: Preparation for Hackathon

Contribution ID: 16

Type: **not specified**

Distribute Hackathon projects

Saturday, 14 September 2019 19:05 (10 minutes)

multi-sim; dynamic-stack corsika; cascade generator; lepton-injector; decision tree; ...

Presenters: KOPPER, Claudio (MSU); WHITEHORN, Nathan (UCLA)

Session Classification: Preparation for Hackathon

Contribution ID: 17

Type: **not specified**

Future galactic plane analyses in context of the global-fit

Saturday, 14 September 2019 18:05 (15 minutes)

An example of diffuse global-fit application for nu-source. hackathon project?

Presenter: HAACK, Christian (RWTH Aachen)

Session Classification: Preparation for Hackathon

Contribution ID: **18**

Type: **not specified**

NuGen VS NuSquids + LeptonInjector

Saturday, 14 September 2019 17:20 (15 minutes)

hackathon topic

Presenter: HOSHINA, Kotoyo (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=edu)

Session Classification: Preparation for Hackathon

Contribution ID: 19

Type: **not specified**

Dynamic-stack CORSIKA

Saturday, 14 September 2019 17:35 (15 minutes)

hackathon topic

Presenter: MEAGHER, Kevin (U.W. Madison)

Session Classification: Preparation for Hackathon

Contribution ID: 20

Type: **not specified**

Kohta's wishlist for the global-fit

Saturday, 14 September 2019 10:50 (35 minutes)

From perspective of a theorist, what are the physics goals of the global-fit? Which measurements can be helpful determining source parameters?

Presenter: MURASE, Kohta (PSU)

Session Classification: Atmospheric modeling and messages from theorists

Contribution ID: 21

Type: **not specified**

Cascade-generator

Saturday, 14 September 2019 18:20 (15 minutes)

a new reconstruction for cascades joining LLH with CNN. next needs to implement interface for photonics-service. hackathon project.

Presenter: HUENNEFELD, Mirco (Dortmund)

Session Classification: Preparation for Hackathon

Contribution ID: 22

Type: **not specified**

Interpretability of bayes factors in diffuse analyses

Saturday, 14 September 2019 18:50 (15 minutes)

Presenter: NIEDERHAUSEN, Hans (TUM)

Session Classification: Preparation for Hackathon