Theia workshop

Report of Contributions

Contribution ID: **5** Type: **not specified**

Welcome, Goals of workshop

Contribution ID: **6**   Type: **not specified**

Theia Overview - Josh Klein, Penn

Thursday 12 April 2018 09:10 (40 minutes)

Session Classification: Path to THEIA

Contribution ID: **7**   Type: **not specified**

Theia Detector Concept

Session Classification: Path to THEIA

Contribution ID: **8** Type: **not specified**

ANNIE Science Overview: Matt Wetstein, Iowa State

Thursday 12 April 2018 09:50 (20 minutes)

Session Classification: Path to THEIA

Contribution ID: **9**   Type: **not specified**

WATCHMAN Science Overview: Adam Bernstein, LLNL

Thursday 12 April 2018 10:10 (20 minutes)

Session Classification: Path to THEIA

Contribution ID: **10**   Type: **not specified**

Opportunities for the AIT at Boulby Underground Lab

Session Classification: Path to THEIA

Contribution ID: **11**   Type: **not specified**

Sanford Underground Research Facility –Status report on the LBNF Project: David Vardiman, SURF

Thursday 12 April 2018 10:50 (30 minutes)

Session Classification: Path to THEIA

Contribution ID: **12**   Type: **not specified**

Discussion: Opportunity for THEIA at LBNF: Robert Svoboda, UC Davis

Thursday 12 April 2018 11:20 (20 minutes)

Session Classification: Path to THEIA

Contribution ID: **13**　　　　　　　　　　　　　　　　　　　　Type: **not specified**

Discussion of the path to Theia: Michi Wurm, Univ. of Mainz

Thursday 12 April 2018 11:40 (30 minutes)

Session Classification: Path to THEIA

Contribution ID: **14**   Type: **not specified**

Overview of R&D Requirements for THEIA

Session Classification: Common R&D

Contribution ID: **15**   Type: **not specified**

ANNIE Run 2 Simulations

Session Classification: Common R&D

Contribution ID: **16**   Type: **not specified**

Overview of WATCHMAN R&D Relevant to THEIA: Matthew Malek, Sheffield

Thursday 12 April 2018 13:20 (25 minutes)

Session Classification: Common R&D

Contribution ID: **17**   Type: **not specified**

Overview of ANNIE R&D Relevant for THEIA: Jonathan Eisch, Iowa State

Thursday 12 April 2018 14:05 (25 minutes)

Session Classification: Common R&D

Contribution ID: 18 Type: **not specified**

Discussion of common simulation package

Session Classification: Common R&D

Contribution ID: **19**   Type: **not specified**

Super-Kamiokande Gd doping: Mark Vagins, UC Irvine/IPMU

Thursday 12 April 2018 15:20 (20 minutes)

Session Classification: Common R&D

Contribution ID: **20**   Type: **not specified**

Directionality in Liquid Scintillator: Bjoern Worsak, Hamburg

Thursday 12 April 2018 15:40 (20 minutes)

Session Classification: Common R&D

Contribution ID: **21** Type: **not specified**

Multi-PMTs

Session Classification: Common R&D

Contribution ID: **22**   Type: **not specified**

ANNIE Reconstuction using LAPPDs: Jingbo Wang, UC Davis

Thursday 12 April 2018 16:40 (20 minutes)

Session Classification: Common R&D

Contribution ID: **23**   Type: **not specified**

PMT production rates, glass, and strength: Robert Svoboda, UC Davis

Thursday 12 April 2018 17:00 (30 minutes)

Session Classification: Common R&D

Contribution ID: **24**   Type: **not specified**

Techniques and Issues in Gd Water Doping: Vincent Fischer, UC Davis

Friday 13 April 2018 09:00 (20 minutes)

Session Classification: Common R&D

Contribution ID: **25**   Type: **not specified**

WbLS Development, Production, and Purification: Minfang Yeh, BNL

Friday 13 April 2018 09:20 (40 minutes)

Session Classification: Common R&D

Contribution ID: **26**   Type: **not specified**

Te-loading in SNO+: Szymon Manecki, Queens University

Friday 13 April 2018 10:00 (30 minutes)

Session Classification: Common R&D

Contribution ID: **27** Type: **not specified**

Discussion of forming a common database

Session Classification: Common R&D

Contribution ID: **28**   Type: **not specified**

LAPPD characterization: Matt Wetstein, Iowa State

Friday 13 April 2018 11:20 (30 minutes)

Session Classification: Common R&D

Contribution ID: **29**   Type: **not specified**

PMT glass issues in WATCHMAN

Session Classification: Common R&D

Contribution ID: **30**   Type: **not specified**

LAPPD Production: Evan Angelico, Univ. of Chicago

Friday 13 April 2018 11:50 (30 minutes)

Session Classification: Common R&D

Contribution ID: **31**   Type: **not specified**

International Perspectives: Canada, Finland, Germany, UK, USA

Saturday 14 April 2018 09:00 (45 minutes)

Session Classification: Discussions

Contribution ID: **32** Type: **not specified**

Discussion of Common R&D and Proposals

Saturday 14 April 2018 09:45 (45 minutes)

Session Classification: Discussions

Contribution ID: **33**   Type: **not specified**

ANNIE Phase 3 with WbLS and more LAPPDs

Session Classification: Discussions

Contribution ID: 34 Type: **not specified**

LAPPDs for WATCHMAN

Session Classification: Discussions

Contribution ID: **35**   Type: **not specified**

Theia Cavern site study

Session Classification: Discussions

Contribution ID: **36** Type: **not specified**

Discussion

Thursday 12 April 2018 14:45 (15 minutes)

Session Classification: Common R&D

Contribution ID: **37** Type: **not specified**

PMT production rates

Session Classification: Common R&D

Contribution ID: **38**   Type: **not specified**

Long baseline white paper results - Mike Wilking

Friday 13 April 2018 14:25 (20 minutes)

Session Classification: Theia White Paper Discussions

Contribution ID: **39**   Type: **not specified**

Long baseline results discussion

Friday 13 April 2018 14:45 (15 minutes)

Session Classification: Theia White Paper Discussions

Contribution ID: **40**   Type: **not specified**

NLDBD white paper results - Valentina, Lindley

Friday 13 April 2018 13:30 (20 minutes)

Session Classification: Theia White Paper Discussions

Contribution ID: **41**   Type: **not specified**

NLDBD results discussion

Friday 13 April 2018 14:05 (20 minutes)

Session Classification: Theia White Paper Discussions

Contribution ID: **42**   Type: **not specified**

Solar neutrino white paper results - Richie Bonventre

Friday 13 April 2018 15:20 (20 minutes)

Session Classification: Theia White Paper Discussions

Contribution ID: **43** Type: **not specified**

Solar neutrino results discussion

Friday 13 April 2018 15:40 (25 minutes)

Session Classification: Theia White Paper Discussions

Contribution ID: 44   Type: **not specified**

Anti-neutrino white paper results: Steve Dye, UH Manoa

Friday 13 April 2018 16:05 (20 minutes)

Session Classification: Theia White Paper Discussions

Contribution ID: 45 Type: **not specified**

Anti-neutrino results discussion

Friday 13 April 2018 16:25 (25 minutes)

Session Classification: Theia White Paper Discussions

Contribution ID: **46**   Type: **not specified**

Other physics topics - discussion

Friday 13 April 2018 16:50 (20 minutes)

Session Classification: Theia White Paper Discussions

Contribution ID: 47 　　　　　　　　　　　　　　　　Type: **not specified**

Archimedes and Honey Bees: Design considerations for large monolithic detectors: Steve Dye, Univ. of Hawaii, Manoa

Thursday 12 April 2018 14:30 (15 minutes)

Session Classification:　Common R&D

Contribution ID: **48**   Type: **not specified**

Latest Results From Chess: Javi Caravaca, UC Berkeley

Friday 13 April 2018 10:50 (30 minutes)

Session Classification: Common R&D

Contribution ID: 49   Type: **not specified**

Advanced Instrumentation Testbed: Sean Paling, Boulby Underground Lab

Thursday 12 April 2018 13:45 (20 minutes)

Session Classification: Common R&D

Contribution ID: **50**   Type: **not specified**

High Energy Event Reconstruction: Leon Pickard, UC Davis

Thursday 12 April 2018 16:00 (20 minutes)

Session Classification: Common R&D

Contribution ID: **51** Type: **not specified**

NLDBD with machine learning: Andrey Elagin

Friday 13 April 2018 13:50 (15 minutes)

Session Classification: Theia White Paper Discussions

Contribution ID: **52**   Type: **not specified**

Low-energy directional reconstruction: Johann, U Mainz

Thursday 12 April 2018 16:20 (20 minutes)

Session Classification: Common R&D