

ETP Weekly Meeting

News



The banner features a dark background with a network of white nodes and lines. On the left, there is a silhouette of a person's head in profile, facing right. In the center, there is a circular graphic resembling a particle detector or a target. On the right, there is a world map with white lines connecting various points across the continents. The text 'Institut für Experimentelle Teilchenphysik (ETP)' is written in white, with 'ETP' in a larger font. Below the main text, there is a smaller logo for 'ETP Institut für Experimentelle Teilchenphysik'.

```
def main(config):
    logger.info("config: %s" % config)
    np.random.seed(int(config["seed"]))
    import ROOT
    ROOT.PyConfig.IgnoreCommandLineOptions = True
    import root_numpy
    import matplotlib.pyplot as plt
    import matplotlib.patches as mpatches
    import random_flow as rf
    logger.debug(tf.__file__)
    tf.set_random_seed(int(config["seed"]))
    from keras import set_session
    tfconfig = tf.ConfigProto()
    tfconfig.gpu_options.allow_growth = True
    set_session(tf.Session(config=tfconfig))

    from sklearn import preprocessing, model_selection
    import keras.models
    from keras.callbacks import ReduceLROnPlateau,
    EarlyStopping, ModelCheckpoint

    # Extract list of variables
    variables = config["variables"]
    classes = config["classes"]
    logger.debug("Use variables:")
    for v in variables:
        logger.debug("%s", v)

    # Load training dataset
    if args.conditional:
        args.balanced_batches = True
        eras = ['2016', '2017', '2018']
    else:
        eras = ['any']
```

Markus Klute

12.09.2022

New members or status changes

... since the last meeting August 8th

- Raquel Quishpe - Postdoc on Shadows / Luxe

LHC / CMS News

...

- Authorship discussions ongoing. Option “C” preferred by KIT.
- No Beam until at least Sept 16th, but very likely not before mid of week 38.
- Restart scenarios post-TS1 under discussion:
 - Preferred scenario will keep the schedule as before the stop, just moving the VdM scan after TS2. This scenario will reduce the HI program of 2-3 days. Details under discussion, but very complicated to find the optimal solution to optimize physics programs and special runs.

- Variant of the "Olympic" solution of "Proposal A"
- Difference: **neutral formulation** that does not explicitly mention affiliations with institutions of the Russian Federation, Belarus, or JINR
- A reference like "**Affiliated with an [institute / international laboratory] [associated / collaborating / covered by a collaboration agreement] with CERN**" is proposed.

Comments (12-Sep-2022 07:51:41)

RF intervention ongoing
Access possible from 12.09 to 16.09 (TS#1)
(contact EN-ACE 161669)
Next morning meeting on 14.09
NO beam until week 37 at least

LUXE

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- Collaboration Days ongoing
- <https://indico.desy.de/event/35797/>
- Presentation by Nicolo on LUXE-NPOD

16:00 → 17:30 Talks Seminar room IV Otto Stern, C...

16:00 Beam tests of scintillator + camera system 20m
 Speakers: John Andrew Hallford (FLC (Forschung an Lepton Collidern)), John Hallford (UCL)
 JohnH_LUXE_Colla...

16:25 Status of NPOD activities 20m
 Speakers: Nicolo Trevisani (KIT), Nicolo Trevisani (KIT - Karlsruhe Institute of Technology (DE)), Nicolo' Trevisani (Universidad de Oviedo (ES))
 LUXE-NPOD_Trevisa...

11:00 → 12:00 WG summaries: WG summaries 2 Seminar room IV Otto Stern, C...

11:00 Technical infrastructure summary 15m
 Speakers: Louis Helary (DESY), Louis Helary (DESY - FTX)
 LUXE_Workshop_Se...

11:15 Electron detection system summary 15m
 Speaker: Ruth Magdalena Jacobs (FHR (Bereichreferent FH))
 220912_RJ_LuxeC...

11:30 Positron detection system summary 15m
 Speaker: Halina Abramowicz (FTX (Technol. zukuenft. Teilcherg. Experim.))
 BWWG-Report-Sep2...

11:45 Photon detection system summary 15m
 Speakers: Gianluca Sarri (Queen's University Belfast), Gianluca Sarri (FTX (Technol. zukuenft. Teilcherg. Experim.))

12:00 → 13:30 Lunch 1h 30m Seminar room IV Otto Stern, C...

13:30 → 15:30 Talks Seminar room IV Otto Stern, C...

13:30 Fast-simulation updates 20m
 Speakers: Arka Santra (Weizmann Institute of Science), Arka Santra (FTX (Technol. zukuenft. Teilcherg. Experim.))
 FastSimDumpPara...

13:55 First FLUKA studies with the 3 dumps 20m
 Speaker: Stewart Boogert (MPY (Beschleunigerphysik))
 2022_09_Fluka.pdf, 2022_09_Fluka.pptx

14:20 Measuring vacuum birefringence from polarised nonlinear Breit-Wheeler 20m
 Speakers: Ben King (University of Plymouth), Ben King (None), Ben King (University of Plymouth), Ben King (University of Plymouth and DESY)
 king_vac_birefringe...

14:45 First experience with tracker modules at WIS 20m
 Speakers: Noam Tal Hod (Weizmann Institute of Science), Noam Tal Hod (Weizmann Institute of Science), Roman Urmanov
 First_experience_wi...

15:10 Test beam plans for the gamma-ray profiler and gamma-ray spectrometer 20m
 Speakers: Gianluca Sarri (Queen's University Belfast), Gianluca Sarri (FTX (Technol. zukuenft. Teilcherg. Experim.))

LUXE Collaboration Meeting
 12 Sep 2022, 09:00 → 13 Sep 2022, 17:30 Europe/Berlin
 Seminar room IV Otto Stern, CFEL (DESY)

Description: For remote participants, please use the following Zoom room:
<https://ucl.zoom.us/j/95788667647>
 For those in DESY, the CFEL building is 99, see [DESY Map](#) for directions. The seminar room is on the first floor, up the stairs on entering the building and turn left at the top of the stairs. You will then see "Otto Stern" straight ahead.

MONDAY, 12 SEPTEMBER

09:00 → 09:45 Introduction Seminar room IV Otto Stern, C...

09:00 Introduction: news from DESY, CD1 and overview 30m
 Speaker: Beate Heinemann (DESY and University of Freiburg (Germany))
 20220912_LUXEcoll...

09:45 → 10:30 WG summaries: WG summaries 1 Seminar room IV Otto Stern, C...

09:45 Analysis and simulation working group 15m
 Speakers: Noam Tal Hod (Weizmann Institute of Science), Noam Tal Hod (Weizmann Institute of Science)
 Noam_SAS_update...

10:00 Computing and DAQ working group 15m
 Speaker: Federico Meloni (ATLAS (ATLAS SM and Beyond))
 LUXE_DAQ_comput...

10:15 Theory working group 15m
 Speakers: Ben King (University of Plymouth), Ben King (None), Ben King (University of Plymouth), Ben King (University of Plymouth and DESY)
 king_theory_WP_up...

Upcoming ETP Monday Meeting

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- 19.09.2022: CMS Collaboration Week
- 26.09.2022: “The Müllerfete” in Bad Herrenalb
- 03.10.2022: Tag der Deutschen Einheit

Upcoming Events

... Sendung mit der Maus



Institut für experimentelle Teilchenphysik

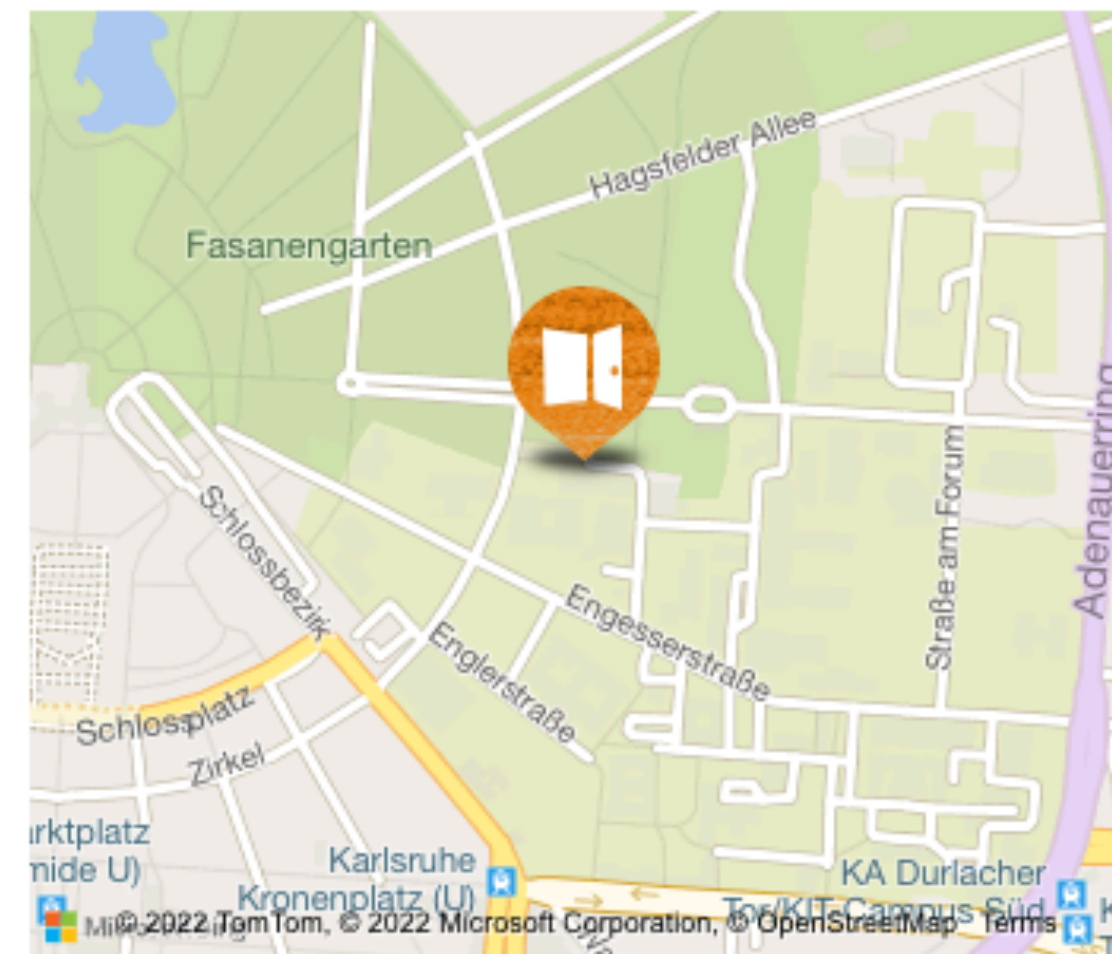
Adresse

ETP
Wolfgang-Gaede-Str. 1
76131 Karlsruhe

Beschreibung

Eine Reise durch das Universum - Entdecke die kleinsten und die größten Strukturen. Werde zum/zur Forscher:in und entdecke, was die Welt im Innersten verbindet und zusammenhält. Wir gehen gemeinsam auf eine Reise, die die kleinsten und größten Strukturen im Weltall erkundet. Bitte gib bei der Anmeldung deine gewünschte Zeit an.

-  **Öffnungszeiten**
10:00 - 12:00 Uhr und 13:00 - 15:00 Uhr
-  **Teilnehmer:innen**
40
-  **Altersempfehlung**
ab 5 Jahren
-  **E-Mail für Anmeldung**
christine.scholl@kit.edu



Teaching and other responsibilities

... for PhD students

- All students are equal but some are more equal than others
- To balance your contributions to teaching, service, outreach, etc, we discussed a value-rating system for teaching contributions and record your contributions.
- Expectation is that everybody contributes
- Please discuss your teaching contributions with your supervisor

Featured presentation

... by Martin Max

- Studies of boosted topologies in the search for NMSSM inspired di-Higgs events in the $\tau\tau + bb$ final state with the CMS experiment

