

ETP Weekly Meeting

News



Institut für Experimentelle
Teilchenphysik (ETP)

Institut für Experimentelle Teilchenphysik

```
def main(config):
    logger.info("config")
    logger.info("args")
    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

11.04.2022

New members or status changes

... since the last meeting

- Micheal Hoch
 - Latest from the CERN bulletin
- Philipp Dorwarth
 - MSc student: GNN tracking for Belle II

ETP Events

... CERN visit April 7-9

Programm

<u>Donnerstag, 07.04.2022</u>	
10:15	Treffen KIT Campus Süd, vor Gerthsen-Hörsaal
10:30	Abfahrt KIT Campus Süd, vor Gerthsen-Hörsaal
ca. 17:30	Ankunft CERN Meyrin Rezeption, Geb. 33; Abholung CERN Zugangskarten
ca. 18:00	Einchecken im CERN-Gästehaus
danach	Get-together im Restaurant 1
<u>Freitag, 08.04.2022</u>	
	Frühstück (CERN-Restaurant 1)
09:00	Besichtigung Anti-Proton Decelerator / CERN Computing Facility
11:30	Mittagessen (CERN-Restaurant 2)
14:00	Bustransfer und Besichtigung Cryogenic test facility SM-18
15:30	Bustransfer zum Microcosm
18:30	Bustransfer zum Abendessen
ca. 19:00 - 22:00	Abendessen: Käsefondue im „Bois Joly“ (Route de Télécabine, F-01170 Crozet)
<u>Samstag, 09.04.2022</u>	
	Frühstück (CERN-Restaurant 1)
8:00	Hostel Check-out
8:30	Bustransfer zum CERN LHC Point 5 (CMS)
12:00	Abfahrt nach Karlsruhe , evtl. kurzer Stopp im Supermarché
19:00	Voraussichtliche Ankunft in Karlsruhe am KIT

ETP Events

... CERN visit April 7-9



Many thanks to the organising team,
special thanks to Dawn Hudson and the KIT CERN locals

Upcoming Events

... Happy Easter

- 12.04. - 4pm Special meeting for CMS
 - Early Run III Measurements
- 19.04. Semester begin
- 19.04. - 4pm Seminar
 - Gaia Lanfranchi - “SHADOWS: Search for Hidden and Dark Objects with the SPS”
- 21.04. - 3.45pm Particle Physics Colloquium
 - Bo Jayatilaka - “W boson mass measurement”
- 25.04. - 5pm ETP meeting
 - Jost von den Driesch - “Search for Dark Matter with graph neural networks at the CMS experiment”
- 28.04. - 3.45pm Particle Physics Colloquium
 - Skyler Degenkolb - “High-precision searches for BSM physics using atoms and neutrons”
- 29.04. - 3.45pm Physics Colloquium
 - Markus Klute - “TBD”

Featured presentation

... by Lucas Weidemann

Sensitivity study for axion-like particles in $B^+ \rightarrow K^+ a$, $a \rightarrow \gamma\gamma$ at Belle II

