

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

12.12.2022

New members or status changes

... since the last meeting

Physics on demand

...



Post-mortem Wednesday at 4pm

Events, seminars and colloquia

... this week

- Seminar: Brendan Regnery - A new GEM muon detector in the CMS experiment and the Boosted Event Shape Tagger for jet classification
 - 13.12.22 Tuesday - 4pm - SR 9-1
- Colloquium: Yukinari Sumino - Renormalons in QCD
 - 15.12.22 Thursday - 3:45pm - kleiner Hörsaal
- Juluis Wess Prize: Elena Aprile - Dark Matter Searches
 - 16.12.22 Friday - 4pm - Aula Campus North
- Next ETP Monday meeting 09.01.2023

Winter break

...

- On-campus operations between Dec 24, 2022 and January 8, 2023 will be suspended.
- Please make sure to turn your heating off on the 23rd or whenever the last person leaves the office before the break.
- You can work from home or take vacation during this period.

ETP Xmas Party

... and wishes



Picture: ... music by the Quasts and friend



Picture: ... and the winner is Team Torben



Featured presentation

... by Artur Monsch

**Implementation of an Optimal Statistical Inference to Reduce Systematic
Uncertainties in the $H \rightarrow \tau\tau$ Analysis at the CMS Experiment**
Uncertainty aware training

