

# 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

28.11.2022

# **New members or status changes**

**... since the last meeting**

# Seminars and colloquia

... this week

- Colloquium: Lorenzo Tancredi - Computational Techniques in Particle Theory
  - 01.12.22 Thursday - 3:45pm - kleiner Hörsaal
- Colloquium: Michael Peskin - Higgs Physics at Future Colliders
  - 08.12.22 Thursday - 3:45pm - kleiner Hörsaal
  - 09.12.22 Friday - 2pm - kleiner Hörsaal (for graduate students)

# Culture

... next week

An underwater scene with a diver in a vintage diving suit on the right, holding a light. In the background, a large, ornate castle or cathedral is visible on the seabed. The water is a deep blue-green color.

**Das Physikertheater präsentiert**

# VINETA

von Jura Soyfer

**3. Dezember 2022 Einlass: 19:30**  
**4. Dezember 2022 Einlass: 16:30**

**KIT Campus Gaede Horsaal**  
**Eintritt frei!**

[www.physikertheater.de](http://www.physikertheater.de)

# Featured presentation

... by Florian Wemmer

Photon reconstruction using Graph Neural Networks in the Belle II calorimeter