

# ETP Weekly Meeting

News



The banner features a dark background with a network of white nodes and lines. On the left, a teal silhouette of a human head is shown in profile, facing right. In the center, a circular diagram with radial lines is visible. On the right, a teal world map is shown with white lines connecting various points. The text 'Institut für Experimentelle Teilchenphysik (ETP)' is written in white, with 'ETP' in a larger font. Below it, the full name 'Institut für Experimentelle Teilchenphysik' is written in a smaller font. The ETP logo, consisting of the letters 'ETP' in a stylized font with a circular graphic element, is positioned to the right of the text.

## Institut für Experimentelle Teilchenphysik (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.animation as animation
    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

09.01.2023

# **New members or status changes**

**... since the last year**

# Code of conduct / Ombudsperson

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- [Guidelines](#) for Ethical Principles of Karlsruhe Institute of Technology (KIT)
- Preparing an ETP code of conduct
- Finding help:
  - In case of problems or concerns, please contact your most trusted faculty
  - FSP-CMS provides an Ombudsperson (Isabell Melzer-Pellmann)
  - Training on harassment, micro aggressions, bystander, etc. is available

# Events, seminars and colloquia

... this week

- Seminar: Matteo Presilla (INFN Perugia) - Recent results in CMS on Vector Boson Scattering and the Effective Field Theory approach
  - 10.01.23 Tuesday - 4pm - SR 9-1
- Colloquium: Gilles Louppe
  - 12.01.23 Thursday - 3:45pm - kleiner Hörsaal
- Next ETP Monday meeting TBD

# Featured presentation

**... by Yee-Ying Cung - Feasibility and Reliability Studies of Graph Neural Networks for Multivariate  $tt+X$  Event Classification at the CMS Experiment at CERN**