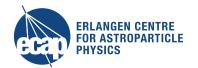
# OrcaNet A training organizer for Deep Learning

Stefan Reck WOSSL workshop 2020-07-27





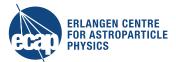




## What is OrcaNet







Goal: Handle technical problems that arise with DL, especially in scientific environment

- → large datasets
- → computing cluster
- → quickly use, adjust and share setups





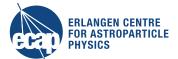




# Workflow







# **Input**

model



data



### OrcaNet



training history



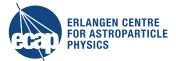
reconstructions

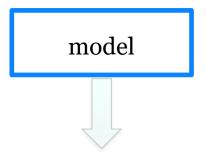
**Output** 

# Workflow









data



#### OrcaNet

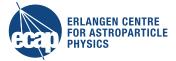
→ simple config file (toml)

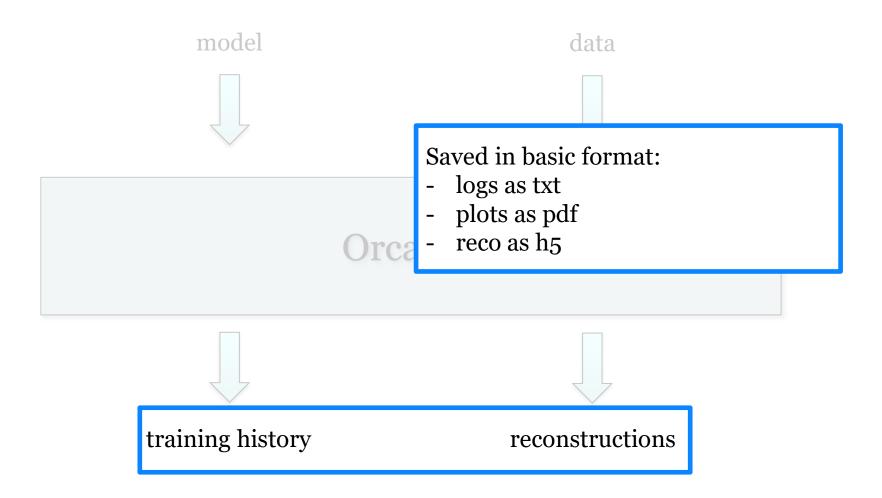
```
[model]
blocks = [
    {type="ResnetBlock", conv_dim=2, filters=32, strides=2},
    {type="ResnetBlock", conv_dim=2, filters=64, strides=2},
    {type="OutputCateg", categories=3}
]
```

# Workflow



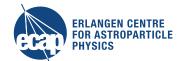














Open source on git:

https://git.km3net.de/ml/OrcaNet
or https://github.com/KM3NeT/OrcaNet

docs <a href="https://ml.pages.km3net.de/OrcaNet/">https://ml.pages.km3net.de/OrcaNet/</a>

distributed via pypi (pip install orcanet)