



## **Dr. Stephan-Robert Kötter**Accelerator Physicist Member of AI4Accelerators team at IBPT (KIT)

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2016 - 2022

Doctoral student (DELTA)

Orbit correction
Beam dynamics
Optimization (cx & non-lin)

2022 - present

Postdoc (KIT)

Orbit correction Anomaly detection Laser-pulse shaping

## **Involvement in RL:**

None so far

## I'm interested in:

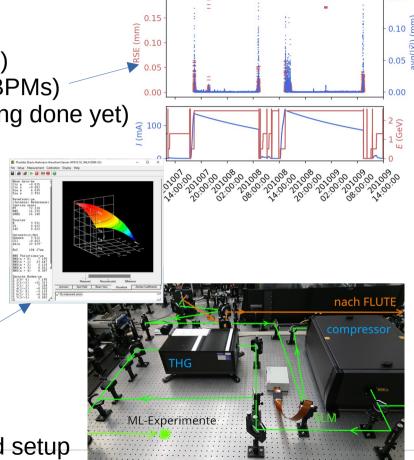
- · Learning about RL
  - Methods
  - Applications
- Identifying usecases for my research

## Research interest I: Orbit correction/stability

- Orbit steering (possible candidate for RL)
- Identifying faulty hardware (looked into BPMs)
- Clustering historic machine states (nothing done yet)

Research interest II: Laser-pulse shaping

- Goal: control transverse wavefront
- Actuator: spatial light modulator (SLM)
- CMOS camera & wavefront sensor
- Method: neural network



Originally planned setup