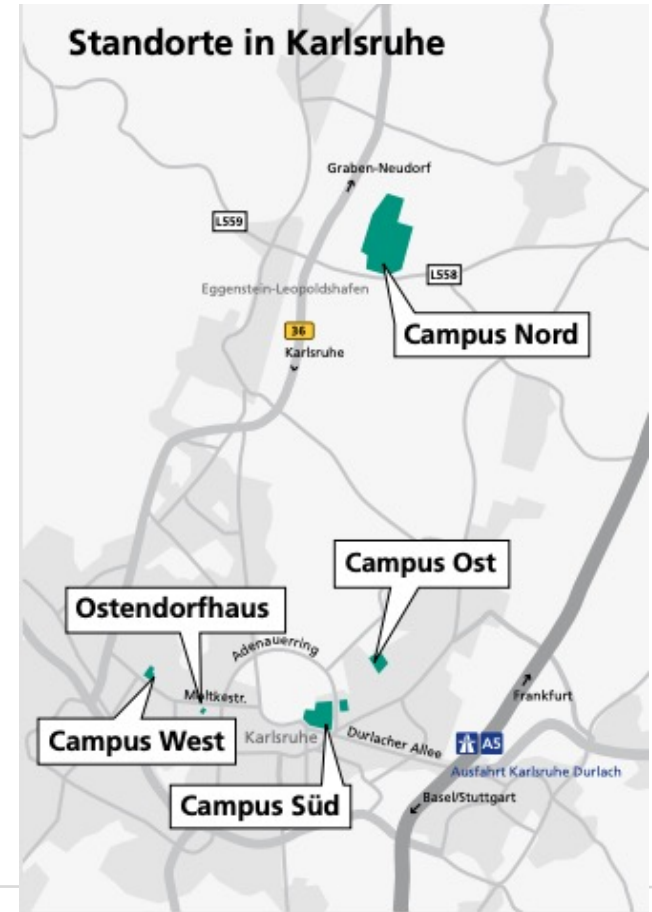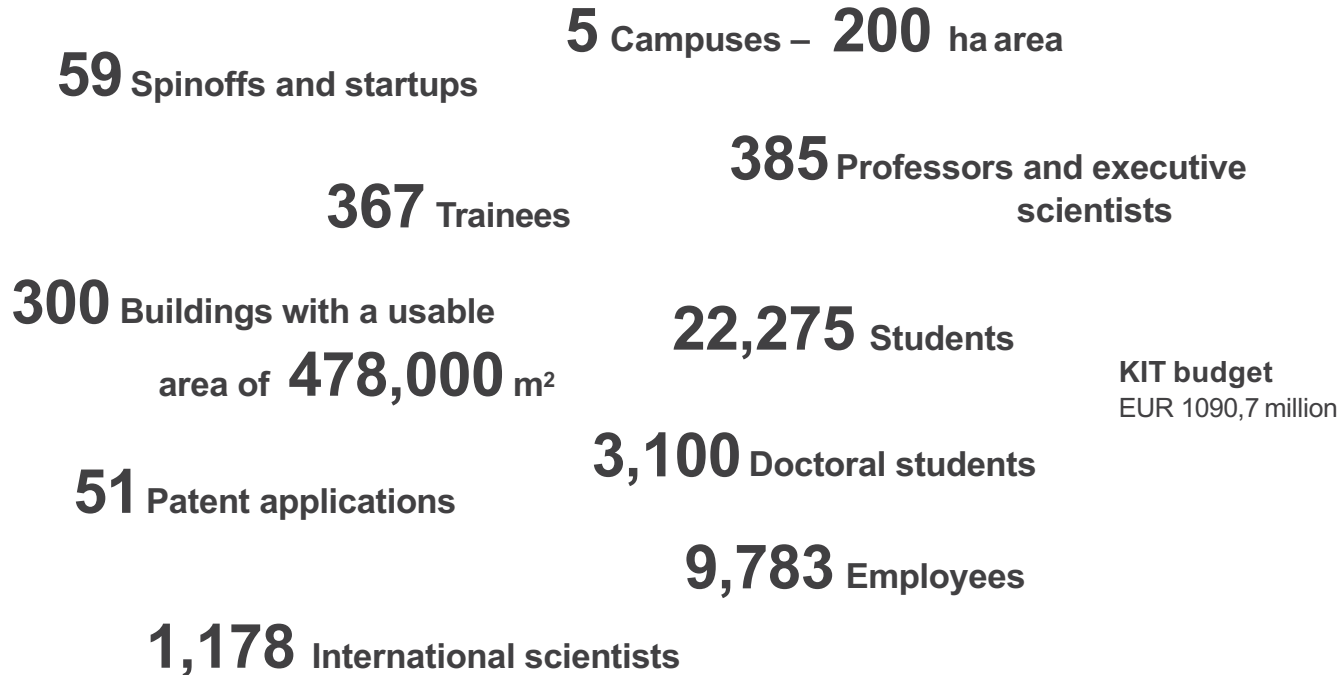# Welcome to the 1st collaboration workshop on Reinforcement Learning for Autonomous Accelerators!

…or RL4AA'23 for short

And welcome to Karlsruhe and to KIT

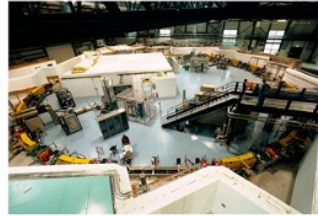# KIT – The Research University in the Helmholtz Association

5 Campuses – **200** ha area

59 Spinoffs and startups

385 Professors and executive scientists

367 Trainees

300 Buildings with a usable area of **478,000** m²

22,275 Students

KIT budget
EUR 1090,7 million

3,100 Doctoral students

51 Patent applications

9,783 Employees

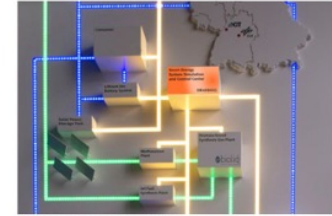**1,178** International scientists

Big research infrastructures at KIT

Acoustic Four-wheel Roller Dynamometer

KARA Synchrotron Radiation Facility

Biomass to Liquid (bioliq®)

EnergyLab 2.0

European Zebrafish Resource Center
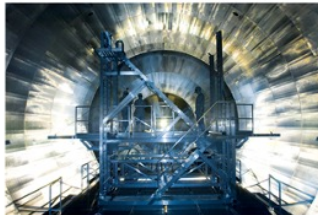
High-perfomance Computer for Research

Grid Computing Centre Karlsruhe (GridKa)

Karlsruhe Nano Micro Facility (KNMF)

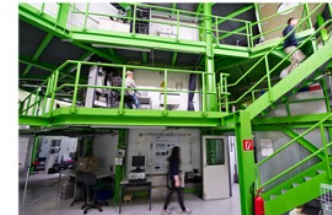Karlsruhe Tritium Neutrino Experiment

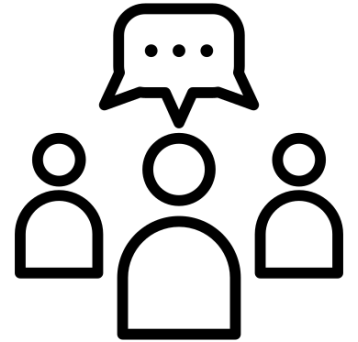Theodor Rehbock River Engineering Laboratory
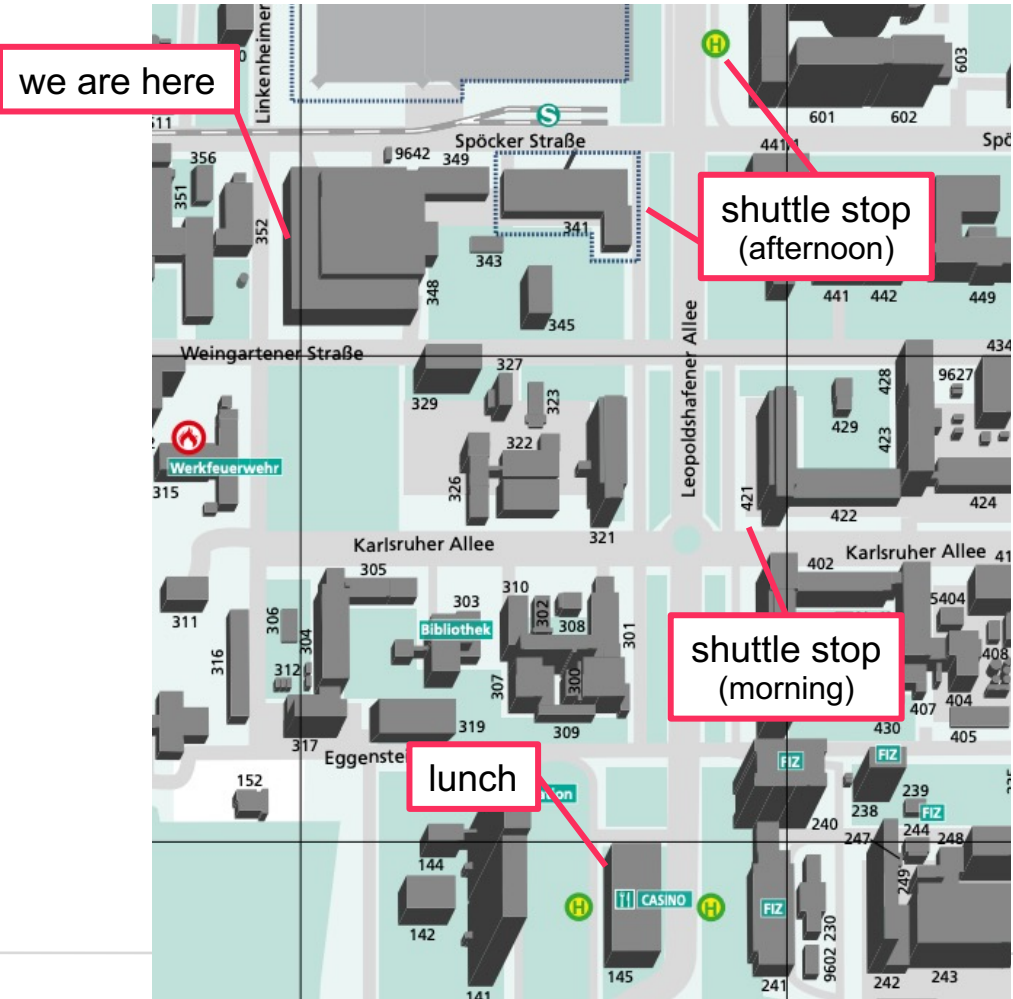
Vehicle Efficiency Laboratory

AIDA Cloud Chamber

In this workshop we want to

- Create a reinforcement learning **community** within accelerator physics

- Get to know each other, our work interests, and **collaborate** in the future

- **Teach** each other what we learn

Logistics

- All the workshop will take place in **this seminar room**

- **WiFi**: **eduroam** (with university credentials), **KIT** (free access)

- **Coffee & WC** are next to the elevator / stairs

- https://www.kit.edu/downloads/campus-nord.pdf

- https://indico.scc.kit.edu/event/3280/page/929-important-information

we are here

shuttle stop (afternoon)

shuttle stop (morning)

lunch

Logistics

- The whole workshop will take place in **this seminar room**

- **WiFi**: **eduroam** (with university credentials), **KIT** (free access)

- **Coffee & WC** are next to the elevator / stairs

- https://www.kit.edu/downloads/campus-nord.pdf

Morning

09:00

Welcome — *Andrea Santamaria Garcia*
09:00 - 09:10

Introduction to IBPT activities — *Johannes Steinmann*
KARA hall seminar room, https://goo.gl/maps/bWuXfGLFZaRVvhuV8
09:10 - 09:30

Tour of the accelerator facilities: KARA (Karlsruhe Research Accelerator)
09:30 - 11:00

10:00

Lunch card money

11:00

Tour of the accelerator facilities: FLUTE (Ferninfrarot Linac- und Test-Experiment)
11:00 - 12:00

Afternoon

	Meet & greet speed talks
14:00	
15:00	
	KARA hall seminar room, https://goo.gl/maps/bWuXfGLFZaRVvhuV8 13:30 - 15:20
	Coffee break
	15:20 - 15:50
	Open discussion: preparation of advanced session
16:00	
	KARA hall seminar room, https://goo.gl/maps/bWuXfGLFZaRVvhuV8 15:50 - 16:50

Hope you enjoy!
(and learn something)