

1st collaboration workshop on Reinforcement Learning for Autonomous Accelerators (RL4AA'23)

Report of Contributions

Contribution ID: 1

Type: **not specified**

IBPT seminar talk by Dr. Simon Hirländer
**”Reinforcement Learning in particle accelerator
control: are we there yet?”**

Tuesday, February 21, 2023 2:00 PM (1 hour)

Presenter: Dr HIRLÄNDER, Simon (University of Salzburg)

Contribution ID: 2

Type: **not specified**

Discussion on RL applications to the real world

Contribution ID: 3

Type: **not specified**

Introduction to RL

Tuesday, February 21, 2023 9:00 AM (40 minutes)

Presenter: Dr SANTAMARIA GARCIA, Andrea (KIT)

Session Classification: Introduction to RL workshop

Contribution ID: 4

Type: **not specified**

Advanced concepts in RL

Tuesday, February 21, 2023 9:40 AM (1 hour)

Presenter: Dr HIRLÄNDER, Simon (University of Salzburg)

Session Classification: Introduction to RL workshop

Contribution ID: 5

Type: **not specified**

Python tutorial: application to an accelerator problem

Tuesday, February 21, 2023 11:00 AM (1h 45m)

Please find the instructions for the tutorial here: <https://github.com/RL4AA/RL4AA23>

Authors: XU, Chenran (IBPT); KAISER, Jan (DESY)

Presenters: Dr SANTAMARIA GARCIA, Andrea (KIT); XU, Chenran (IBPT); KAISER, Jan (DESY); Dr HIRLÄNDER, Simon (University of Salzburg)

Session Classification: Introduction to RL workshop

Contribution ID: 6

Type: **not specified**

Going down to the KARA accelerator, control room, EO setup

Session Classification: Tour of the accelerator facilities

Contribution ID: 7

Type: **not specified**

IR1 & IR2

Visit to the THz hatch, KALYPSO

Visit to IR1, KAPTURE + Highflex + Versal setup

Session Classification: Tour of the accelerator facilities

Contribution ID: 8

Type: **not specified**

KIT-Shuttle to Campus Nord

Contribution ID: 9

Type: **not specified**

Introduction to IBPT activities

Monday, February 20, 2023 9:10 AM (20 minutes)

Presenter: STEINMANN, Johannes (KIT / IBPT)

Contribution ID: **10**

Type: **not specified**

Sabrina Appel

Monday, February 20, 2023 1:30 PM (5 minutes)

Session Classification: Meet & greet speed talks

Contribution ID: **11**

Type: **not specified**

Awal Awal

Monday, February 20, 2023 1:35 PM (5 minutes)

Session Classification: Meet & greet speed talks

Contribution ID: **12**

Type: **not specified**

Niky Bruchon

Monday, February 20, 2023 1:40 PM (5 minutes)

Session Classification: Meet & greet speed talks

Contribution ID: **13**

Type: **not specified**

Conrad Caliarì

Monday, February 20, 2023 1:45 PM (5 minutes)

Session Classification: Meet & greet speed talks

Contribution ID: **14**

Type: **not specified**

Felipe Donoso

Monday, February 20, 2023 1:50 PM (5 minutes)

Session Classification: Meet & greet speed talks

Contribution ID: 15

Type: **not specified**

Julian Gethmann

Monday, February 20, 2023 1:55 PM (5 minutes)

Presenter: GETHMANN, Julian (KIT: IBPT/LAS)

Session Classification: Meet & greet speed talks

Contribution ID: **16**

Type: **not specified**

Jan Henry Hetzel

Monday, February 20, 2023 2:00 PM (5 minutes)

Session Classification: Meet & greet speed talks

Contribution ID: 17

Type: **not specified**

Simon Hirländer

Monday, February 20, 2023 2:05 PM (5 minutes)

Session Classification: Meet & greet speed talks

Contribution ID: **18**

Type: **not specified**

Jan Kaiser

Monday, February 20, 2023 2:10 PM (5 minutes)

Presenters: KAISER, Jan (DESY); KAISER, Jan (DESY)

Session Classification: Meet & greet speed talks

Contribution ID: **19**

Type: **not specified**

Sabrina Pochaba

Monday, February 20, 2023 2:25 PM (5 minutes)

Session Classification: Meet & greet speed talks

Contribution ID: **20**

Type: **not specified**

Andrea Santamaria Garcia

Monday, February 20, 2023 2:30 PM (5 minutes)

Session Classification: Meet & greet speed talks

Contribution ID: **21**

Type: **not specified**

Michael Schenk

Monday, February 20, 2023 2:35 PM (5 minutes)

Session Classification: Meet & greet speed talks

Contribution ID: 22

Type: **not specified**

Pierre Schnizer

Monday, February 20, 2023 2:40 PM (5 minutes)

Session Classification: Meet & greet speed talks

Contribution ID: **23**

Type: **not specified**

Alexander Schütt

Monday, February 20, 2023 2:45 PM (5 minutes)

Session Classification: Meet & greet speed talks

Contribution ID: 24

Type: **not specified**

Luca Scomparin

Monday, February 20, 2023 2:50 PM (5 minutes)

Presenter: SCOMPARIN, Luca

Session Classification: Meet & greet speed talks

Contribution ID: 25

Type: **not specified**

Chenran Xu

Monday, February 20, 2023 3:00 PM (5 minutes)

Presenter: XU, Chenran (IBPT)

Session Classification: Meet & greet speed talks

Contribution ID: 26

Type: **not specified**

Discussions, Q&A

Monday, February 20, 2023 3:05 PM (20 minutes)

Session Classification: Meet & greet speed talks

Contribution ID: 27

Type: **not specified**

Discussion Group 1: Modeling, limitations, and methods

Tuesday, February 21, 2023 3:30 PM (35 minutes)

Presenter: HIRLÄNDER, Simon

Session Classification: Discussion on advanced RL topics

Contribution ID: 28

Type: **not specified**

Discussion Group 2: Challenges I

Tuesday, February 21, 2023 4:05 PM (35 minutes)

Presenter: XU, Chenran (IBPT)

Session Classification: Discussion on advanced RL topics

Contribution ID: 29

Type: **not specified**

Discussion Group 3: Challenges II

Tuesday, February 21, 2023 4:40 PM (35 minutes)

Presenter: SCHENK, Michael

Session Classification: Discussion on advanced RL topics

Contribution ID: **30**

Type: **not specified**

Discussion Group 4: Community

Tuesday, February 21, 2023 5:15 PM (35 minutes)

Presenter: KAISER, Jan

Session Classification: Discussion on advanced RL topics

Contribution ID: **31**

Type: **not specified**

Farewell

Tuesday, February 21, 2023 5:50 PM (10 minutes)

Presenter: SANTAMARIA GARCIA, Andrea (KIT)

Session Classification: Discussion on advanced RL topics

Contribution ID: **32**

Type: **not specified**

Welcome

Monday, February 20, 2023 9:00 AM (10 minutes)

Presenter: SANTAMARIA GARCIA, Andrea (KIT)

Contribution ID: **33**

Type: **not specified**

Reuf Kozlica

Monday, February 20, 2023 2:15 PM (5 minutes)

Session Classification: Meet & greet speed talks

Contribution ID: **34**

Type: **not specified**

Stephan Kötter

Monday, February 20, 2023 2:20 PM (5 minutes)

Session Classification: Meet & greet speed talks

Contribution ID: 35

Type: **not specified**

Waheedullah Sulaiman Khail

Monday, February 20, 2023 2:55 PM (5 minutes)

Session Classification: Meet & greet speed talks