

# **Simulation-based Inference for scientific discovery**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Welcome

*Monday, September 20, 2021 9:00 AM (20 minutes)*

**Presenters:** Mr TEJERO-CANTERO, Alvaro (MLcolab); STEINBACH, Peter (HZDR)

Contribution ID: 2

Type: **not specified**

## **Simulators for Science**

*Monday, September 20, 2021 9:20 AM (20 minutes)*

**Presenter:** Mr TEJERO-CANTERO, Alvaro (MLcolab)

Contribution ID: 3

Type: **not specified**

## Introduce your simulators

*Monday, September 20, 2021 9:40 AM (1 hour)*

**Presenters:** Mr TEJERO-CANTERO, Alvaro (MLcolab); STEINBACH, Peter (HZDR)

Contribution ID: 4

Type: **not specified**

## **From Simulators to Simulations-based Inference**

*Monday, September 20, 2021 11:00 AM (1 hour)*

**Presenter:** Mr TEJERO-CANTERO, Alvaro (MLcolab)

Contribution ID: 5

Type: **not specified**

## Computing on HAICORE

*Monday, September 20, 2021 1:15 PM (45 minutes)*

**Presenter:** KESSELHEIM, Stefan (FZ Jülich)

Contribution ID: 6

Type: **not specified**

## **Practical: ABC hands-on**

*Monday, September 20, 2021 2:00 PM (1 hour)*

**Presenters:** Mr TEJERO-CANTERO, Alvaro (MLcolab); KESSELHEIM, Stefan (FZ Jülich)

Contribution ID: 7

Type: **not specified**

## **Lecture: SBI in neuroscience**

*Monday, September 20, 2021 3:00 PM (1 hour)*

**Presenter:** Mr GONCALVES, Pedro (Mackelab)



Contribution ID: 8

Type: **not specified**

## Learner Feedback Day 1

*Monday, September 20, 2021 4:00 PM (20 minutes)*

**Presenter:** STEINBACH, Peter (HZDR)

Contribution ID: 9

Type: **not specified**

## Conditional Density Estimation

*Tuesday, September 21, 2021 9:00 AM (1h 30m)*

**Presenter:** DEISTLER, Michael (MackeLab)

Contribution ID: **10**

Type: **not specified**

## **Introduction to SNPE**

*Tuesday, September 21, 2021 10:30 AM (1h 30m)*

**Presenters:** Mr GREENBERG, David (Hereon); DEISTLER, Michael (MackeLab)

Contribution ID: 11

Type: **not specified**

## **SNLE and SNRE**

*Tuesday, September 21, 2021 1:00 PM (1h 30m)*

**Presenter:** Mr GREENBERG, David (Hereon)

Contribution ID: 12

Type: **not specified**

## **Practical: The SBI package**

*Tuesday, September 21, 2021 2:30 PM (1 hour)*

**Presenter:** Mr BÖLTS, Jan

Contribution ID: 13

Type: **not specified**

## Learner Feedback Day 2

*Tuesday, September 21, 2021 3:30 PM (20 minutes)*

Contribution ID: 14

Type: **not specified**

## **Benchmarking SBI**

*Wednesday, September 22, 2021 9:00 AM (40 minutes)*

**Presenter:** Mr LÜCKMANN, Jan-Matthis (MackeLab)

Contribution ID: 15

Type: **not specified**

## Troubleshooting SBI

*Wednesday, September 22, 2021 9:40 AM (1 hour)*

**Presenter:** Mr BÖLTS, Jan



Contribution ID: 16

Type: **not specified**

## Bayesian Workflow

*Wednesday, September 22, 2021 10:40 AM (1 hour)*

**Presenter:** Mr BÖLTS, Jan

Contribution ID: 17

Type: **not specified**

## **SBI with your data**

*Wednesday, September 22, 2021 1:00 PM (3 hours)*

**Presenters:** Mr TEJERO-CANTERO, Alvaro (MLcolab); Mr BÖLTS, Jan; Mr LÜCKMANN, Jan--Matthis (MackeLab); DEISTLER, Michael (MackeLab); STEINBACH, Peter (HZDR)