

**IDAS/IAS week on modelling:  
Computer Models,  
Simulations, Data & Reality**

**Report of Contributions**

Contribution ID: 2

Type: **not specified**

## Simulations in Particle Physics

*Tuesday, 2 May 2023 13:00 (30 minutes)*

**Presenter:** SCHOENHERR, Marek (Physics & IPPP)

**Session Classification:** Modelling Talks

Contribution ID: 3

Type: **not specified**

## **Molecular Modelling in Medicinal Chemistry**

*Tuesday, 2 May 2023 13:30 (30 minutes)*

**Presenter:** COLE, Daniel (Chemistry (Newcastle))

**Session Classification:** Modelling Talks

Contribution ID: 4

Type: **not specified**

## **Geothermal Heat Extraction from Abandoned Mines**

*Tuesday, 2 May 2023 14:00 (30 minutes)*

**Presenter:** VAN HUNEN, Jeroen (Earth Sciences)

**Session Classification:** Modelling Talks

Contribution ID: 7

Type: **not specified**

## **Social Networks: How Much Realism Do We Need?**

*Tuesday, 2 May 2023 15:00 (30 minutes)*

**Presenter:** BADHAM, Jennifer (Sociology)

**Session Classification:** Modelling Talks

Contribution ID: 8

Type: **not specified**

## **Market Reliability Measures**

*Tuesday, 2 May 2023 15:30 (30 minutes)*

**Presenter:** KARAM, Arze (Finance)

**Session Classification:** Modelling Talks

Contribution ID: **10**

Type: **not specified**

# Uncertainty quantification for complex physical models

*Wednesday, 3 May 2023 10:00 (30 minutes)*

**Presenter:** GOLDSTEIN, Michael (Mathematical Sciences)

**Session Classification:** Modelling Talks

Contribution ID: 11

Type: **not specified**

## **What I Talk About When I Talk About Modelling**

*Wednesday, 3 May 2023 10:30 (30 minutes)*

**Presenter:** WAINWRIGHT, John (Geography)

**Session Classification:** Modelling Talks

Contribution ID: 12

Type: **not specified**

## The Rise and Fall of Empires

*Wednesday, 3 May 2023 11:00 (30 minutes)*

**Presenter:** PARKER, Thomas (Physics)

**Session Classification:** Modelling Talks

Contribution ID: 13

Type: **not specified**

## Large-Scale Computing

*Wednesday, 3 May 2023 12:00 (30 minutes)*

**Presenter:** WEINZIERL, Tobias (Computer Science)

**Session Classification:** Modelling Talks

Contribution ID: 14

Type: **not specified**

## **IAS/IDAS Discussion on Modelling**

*Wednesday, 3 May 2023 12:30 (30 minutes)*

**Presenter:** BEIERHOLM, Ulrik (Psychology)

**Session Classification:** Modelling Talks

Contribution ID: 15

Type: **not specified**

## **Modelling Evolutionary History**

*Wednesday, 3 May 2023 13:00 (30 minutes)*

**Presenter:** SMITH, Martin (Earth Science)

**Session Classification:** Modelling Talks

Contribution ID: **16**

Type: **not specified**

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*Wednesday, 3 May 2023 14:30 (30 minutes)*

**Presenter:** POHL, Ehmke (Chemistry)

**Session Classification:** Modelling Talks

Contribution ID: 17

Type: **not specified**

## **Descriptive Modelling versus Mechanistic Modelling**

*Wednesday, 3 May 2023 15:00 (30 minutes)*

**Presenter:** STREICHER, Piet

**Session Classification:** Modelling Talks

Contribution ID: **18**

Type: **not specified**

## **Overflow**

*Wednesday, 3 May 2023 15:30 (30 minutes)*

**Session Classification:** Modelling Talks

Contribution ID: 19

Type: **not specified**

## Smart Methods for Complex Policy Evaluation

*Thursday, 4 May 2023 10:00 (30 minutes)*

**Presenter:** CASTELLANI, Brian (Sociology)

**Session Classification:** Modelling Talks

Contribution ID: 20

Type: **not specified**

## Minimum Mixture Estimation

*Thursday, 4 May 2023 10:30 (30 minutes)*

**Presenter:** MEDZIHORSKY, Juraj (SGIA)

**Session Classification:** Modelling Talks

Contribution ID: 21

Type: **not specified**

# Automatically Identifying Dynamical Systems from Data

*Thursday, 4 May 2023 11:00 (30 minutes)*

**Presenter:** CARVALHO, Rui (Engineering)

**Session Classification:** Modelling Talks

Contribution ID: 22

Type: **not specified**

## Modelling Stellar Interiors

*Thursday, 4 May 2023 11:30 (30 minutes)*

**Presenter:** CURRIE, Laura (Mathematical Sciences)

**Session Classification:** Modelling Talks

Contribution ID: 23

Type: **not specified**

# Modelling the Complex Dynamical System of the Milky Way with Cosmological Simulations

*Thursday, 4 May 2023 14:00 (30 minutes)*

**Presenter:** FRAGKOUDI, Francesca (Physics)

**Session Classification:** Modelling Talks

Contribution ID: 24

Type: **not specified**

## Getting Truth out of Models

*Thursday, 4 May 2023 13:30 (30 minutes)*

**Presenter:** VICKERS, Peter (Philosophy)

**Session Classification:** Modelling Talks

Contribution ID: 25

Type: **not specified**

## **Revealing the Mysteries of Cosmos using Computer Simulations**

*Thursday, 4 May 2023 13:00 (30 minutes)*

**Presenter:** FATTAHI-SAVADJANI, Azadeh (Physics)

**Session Classification:** Modelling Talks

Contribution ID: 26

Type: **not specified**

## Designing New Materials

*Thursday, 4 May 2023 14:30 (30 minutes)*

**Presenter:** CLARK, Stewart (Physics)

**Session Classification:** Modelling Talks