

# PARALLEL SESSIONS

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— Wednesday 22 May

**Chair** Miguel Ángel Carretero

*Wolfgang Paul Saal*

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| 14:45 - 15:25 | <b>Simplifying Simplicity</b><br>Christian J. Feldbacher-Escamilla                           |
| 15:25 - 16:05 | <b>Simplicity and Unification in Mathematical Explanation</b><br>Navia Rivas de Castro       |
| 16:05 - 16:45 | <b>Opacity in High Energy Physics – Induced by complexity?</b><br>Paul Grünke & Florian Boge |

**Chair** Markus Ehberger

*Martini Seminarraum*

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| 14:45 - 15:25 | <b>Inconceivable simplicity; the rejection of Mendel's theory of heredity by his contemporaries</b><br>Mike Buttolph |
| 15:25 - 16:05 | <b>From Simple to Complex: the Emergence of Multicellularity</b><br>Walter Veit                                      |
| 16:05 - 16:45 | <b>The quest for simplicity: DPT combination vaccine in the 1950s and 60s</b><br>Gaëtan Thomas                       |

**Chair** Cristin Chall

*Curtius Konferenzraum*

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| 14:45 - 15:25 | <b>Simplicity in Statistical Model Selection</b><br>Chris Arledge   |
| 15:25 - 16:05 | <b>Interconnections of simplicity and complexity in the development of geometric concepts</b><br>Maximilian Holdt |
| 16:05 - 16:45 | <b>Application of Computer Programs to Simulate the Folding of Conotoxins</b><br>Windol Charls Santos             |

## Thursday 23 May

**Chair** Miguel Ángel Carretero

*Wolfgang Paul Saal*

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| 14:15 - 14:55 | <b>The Price equation and the complex biological world</b><br>Victor Luque                                      |
| 14:55 - 15:35 | <b>Broken Symmetry: the bridge between simplicity and complexity</b><br>Núria Muñoz                             |
| 15:35 - 16:15 | <b>Higgs Naturalness and Two Views of Wilsonian Effective Field Theory</b><br>Joshua Rosaler & Robert Harlander |

**Chair** Helene Sorgner

*Martini Seminarraum*

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| 14:15 - 14:55 | <b>Sociological knowledge between storytelling and modelling</b><br>Lisa Kressin   |
| 14:55 - 15:35 | <b>Situated Modelling: Anthropological Perspectives on Linking Complexity to Simplicities in Environmental Research</b><br>Anja Klein, Krystin Unverzagt & Jörg Niewöner |
| 15:35 - 16:15 | <b>Complex socio-technical relations: a consideration of simplicity as principle of product development</b><br>Fabian Pilz & Andrea Wolffram                             |

**Chair** Paul Grünke

*Curtius Konferenzraum*

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| 14:15 - 14:55 | <b>Algorithmic Information Theory and the Eye of the Beholder: from General Complexity to General Intelligence</b><br>Manuel García-Piqueras & José Hernández-Orallo |
| 14:55 - 15:35 | <b>Are Computer-Assisted-Proofs Really Complex? Complexity, Simplicity And Insight In Mathematics</b><br>Paul Hasselkuß  |
| 15:35 - 16:15 | <b>Cognitive and computational complexity in mathematical problem solving</b><br>Markus Pantsar  |

## Friday 24 May

**Chair** Markus Ehberger

*Wolfgang Paul Saal*

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| 14:15 - 14:55 | <b>Scaling and measuring gender (in)equalities: simplicities and complexities when reflecting on the ACT project</b><br>Anne-Sophie Godfroy      |
| 14:55 - 15:35 | <b>Organizational Complexity in LHC Experiments: Distributing Conference Talks as a Problem of Optimization</b><br>Martina Merz & Helene Sorgner |
| 15:35 - 16:15 | <b>Subsuming complexity: research strategies in historical social sciences</b><br>Ivan Ermakoff  |

**Chair** Miguel Ángel Carretero

*Martini Seminarraum*

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| 14:15 - 14:55 | <b>Balancing complexity and simplicity in ecology – strategies and challenges</b><br>Tina Heger                                     |
| 14:55 - 15:35 | <b>The Plurality of Simplicity in Molecular and Systems Biology</b><br>Fridolin Gross   |
| 15:35 - 16:15 | <b>Reductionism and Emergence in Theoretical Ecology: Challenges of "Species" as a Basal Unit</b><br>Paul Grünke & Katharina Brinck |

**Chair** Cristin Chall

*Friesenhahn Tagungsraum*

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| 14:15 - 14:55 | <b>Software Design: It's Complicated</b><br>Michael Dorin & Sergio Montenegro |
| 14:55 - 15:35 | <b>A Logical Structure for Reducing Complexity</b><br>Robert Moir             |
| 15:35 - 16:15 | <b>The Saari triangle - both simple(x) and complex</b><br>Jaakko Hakula       |