How do young people develop the skills and motivation to pursue science and mathematics?

PHOENIX

Funded by
EXC 3112 Center for Chiral Electronics
DFG Deutsche Forschungsgemeinschaft

Science and mathematics are essential for addressing future societal challenges. Yet, many students struggle to develop strong competencies and sustained interest in these subjects at school – and university STEM programs face low enrolment and high dropout rates. The project **PHOENIX** investigates how to foster young people's interest in science, particularly physics.

Introductory Lecture

The introductory lecture provides an overview of how students' competencies in mathematics and science have developed over the past two decades.

2ND FEBRUARY

Changing Levels, Persistent Gaps? Trends and Disparities in Mathematics and Science Competence and Motivation in Germany and Internationally

TU Dortmund University, CDI-Building, Room 022 and online via Zoom

Moderation: JProf. Dr. Justine Stang-Rabrig – IFS, TU Dortmund

4.00–4.45 pm (CET)

Introduction and Lecture by Prof. Dr. Nele McElvany – IFS, TU Dortmund

4.45-5.30 pm (CET)

Discussion by Prof. Dr. Samuel Greiff – Technical University Munich (National Project Manager of PISA Germany), followed by a plenary discussion

5.30-6.00 pm (CET)

Get-together

REGISTRATION INFORMATION

Participation is free of charge, but prior registration is required: https://eveeno.com/153235438

PHOENIX Lecture Series

The PHOENIX lecture series features international experts from the Scientific Advisory Board who discuss key theories and research on **motivation and emotion, identity, competence, social disparities, and intervention research in STEM.**

22nd JUNE

How Adolescents' Expectancies, Values, and Interests in STEM Change and Their Implications for the Choices They Make

Prof. Dr. Allan Wigfield – University of Maryland

4.00 pm at TU Dortmund University, CDI-Building, Room 022 and online via Zoom

Scientific Adivosory Board

Jacquelynne Eccles (University of California, Irvine) | Anne Frenzel (LMU München) | Hanna Gaspard (Universität Konstanz) | Judith Harackiewicz (University of Wisconsin – Madison) | Fani Lauermann (Universität Bonn) | Knut Neumann (IPN Kiel) | Daphna Oyserman (University of Southern California) | Emily Rosenzweig (Teachers College, Columbia University) | Henriette Tolstrup Holmegaard (University of Copenhagen) | Allan Wigfield (University of Maryland)

PHOENIX is part of the Cluster of Excellence *Center for Chiral Electronics* (EXC 3112), a joint initiative of Martin Luther University Halle-Wittenberg, Freie Universität Berlin and the University of Regensburg, in cooperation with the Center for Research on Education and School Development (IFS) at TU Dortmund University. It is funded by the German Research Foundation (DFG) as part of the German Excellence Strategy – EXC3112/1 – 533767171 (Center for Chiral Electronics).