

Programme

from 8:30 a.m.	Registration			
9:15 a.m.– 10:15 a.m.	Welcome Event in the Audimax with rector and vice-rector for research and research networking			
10:15 a.m.– 10:30 a.m.	Room Change			
10:30 a.m.– 12:00 p.m.	/ Thematic Sessions Focus Areas			
	AI*IM Autonomy and assistance with inclusive AI: from guiding principles to a basic paper room: S0-501	ANBauEn ESyMath QUAMU Evolution and Randomness room: H7	SHIFT UNIVERSAL ConGeD Entanglements and disentanglements in nature and society room: H4	PINC REFLECT Creativity in problem solving room: S1-209
12:00 p.m.– 1:00 p.m.	Lunch Break (self-organized)			
1:00 p.m.– 2:30 p.m.	// Thematic Sessions Focus Areas			
	FAITH Artificial Intelligence Agents in the Workplace: Perspectives from Industry, Society and Science room: S1-209	MDDW InChangeE Microbiomes change - two perspectives from ecology and biotechnology room: H4	UNIVERSAL ConGeD Universalisation and Challenges to Democracy room: Audimax	REFLECT PINC Understanding and Fostering Critical Thinking in the Age of AI room: H7
2:30 p.m.– 3:30 p.m.	Exploration Areas Poster Session & Coffee			
3:30 p.m.– 5:00 p.m.	/// Thematic Sessions Focus Areas			
	InChangeE Individualisation across disciplines room: H7	ESyMath REFLECT FAITH CATS Collaborative synergies in teaching and learning of mathematics room: Audimax	QUAMU CoIn Inequality and Uncertainty room: H4	
5:15 p.m.	Wrap-up & Get-together			



Thematic Sessions Focus Areas

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10:30 a.m. – 12:00 p.m.
AI*IM
Autonomy and assistance with inclusive AI: from guiding principles to a basic paper | *Workshop*

The results of the ZIF workshop on the ethical, philosophical, medical, technical and participatory foundations of inclusive AI systems will be presented. In the workshop, the key concepts of autonomy, ability, assistance, decision-making and action will be clarified with regard to their use in the focus area. The theoretical concepts will be illustrated using exemplary situations (e.g. informed consent) in order to develop the basis for an interdisciplinary position paper.

ANBauEn | ESyMath | QUAMU
Evolution and Randomness | *Workshop*

Evolution and randomness shape the world around us -- from the seemingly random motion of molecules to the uncertainty of financial markets. In this workshop, we will explore the interplay between evolution and randomness from multiple perspectives, spanning the natural sciences, mathematics, and economics in an interdisciplinary setting. The session will feature talks and discussions by members of the focus areas ANBauEn, ESyMath, and QUAMU.

SHIFT | UNIVERSAL | ConGeD
Entanglements and disentanglements in nature and society | *Panel*

The panel focusses on inter-American and global entanglement and disentanglement processes in socio-political and ecological human-environment relations. The viability of the concept will be paradigmatically scrutinised in short contributions from the interdisciplinary research areas of ‚Knowledge Orders‘ and ‚Moral Economy‘. Researchers from the natural and economic sciences, the history of science, history and cultural studies will discuss with representatives of UNIVERSAL & ConGeD.

PINC | REFLECT
Creativity in problem solving | *Workshop*

Human creativity is evident not only in the artistic realm, but also, and perhaps most significantly, in our ability to find and reflect solutions to individual and societal challenges that go beyond established routines.

The workshop is designed to facilitate interdisciplinary exchange on the nature of problem-solving strategies, as identified in such disciplines as computer science, economics, education, history, linguistics, literary and cultural studies, medicine, psychology, and sociology.

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1:00 p.m. – 2:30 p.m.
FAITH
Artificial Intelligence Agents in the Workplace: Perspectives from Industry, Society and Science | *Panel*

FAITH presents a session on the foundations and implications of human-AI teamwork (HAIT) in industry, society, and science. The session covers a panel discussion followed by a world café. Stakeholders from various sectors will discuss what the status quo is regarding AI agents that support us in the workplace, exploring questions related to how far these relationships can be characterised as teams as well as how the deployment of such systems can be expected to change the way we work together.

MDDW | InChangeE
Microbiomes change - two perspectives from ecology and biotechnology | *Oral*

Microorganisms form complex communities that interact with plants, animals and humans (MDDW). These microbiomes contribute to differences among individuals within a species (InChange) and respond to experimental interventions. In ecology, environmental factors such as food stress and anthropogenic noise can differentially affect individuals. In biotechnology, microbiomes can be reconstructed from scratch, enabling interventions at the single-cell level. Can these approaches inform one another?

UNIVERSAL | ConGeD
Universalisation and Challenges to Democracy | *Panel*

The roundtable will discuss the global challenges to democracy from two perspectives: First, are dynamics of de-democratisation also to be understood as de-particularisations, or do they rather de-particularise other notions of political order? Secondly, are dynamics of de-democratisation constitutively based on challenges to certain ideas of political and social order, or are such challenges themselves contingent

REFLECT | PINC
Understanding and Fostering Critical Thinking in the Age of AI | *Oral*

This session presents three interdisciplinary projects that are at the heart of the focus area REFLECT. In these projects, we analyze a) how families can develop critical thinking in using AI, b) how students evaluate the credibility of AI-generated outputs, and c) how to foster critical thinking through a video-based training intervention to be implemented in ki-campus.org. Together with guests from the focus area PINC, we will reflect creative solutions of critical thinking in the age of AI.

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3:30 p.m. – 5:00 p.m.
InChangeE
Individualisation across disciplines | *Oral*

The process of individualisation arises from interactions between individuals and their physical, biological, and social environments. While many aspects have been studied across disciplines, a full understanding requires an interdisciplinary approach. In this session, contributions from various fields highlight the diversity of the InChangeE focus area and address questions on the topic of individualisation.

ESyMath | REFLECT, FAITH | CATS (expl.a.) Collaborative synergies in teaching and learning of mathematics | *Workshop*

The session covers three overlapping research topics, namely using multiple mathematical representations (ESyMath/MICOS), critical thinking in education (REFLECT focus area) and utilizing AI tools in teaching (FAITH focus area/CATS exploration area) in light of the shared question how the learning and teaching of mathematics can be improved through collaborative synergies in and between these areas.

QUAMU | Coln
Inequality and Uncertainty | *Oral*

Research at the intersection of Coln and QUAMU examines the interconnections between inequality and uncertainty. We investigate whether inequality generates uncertainty, whether uncertainty exacerbates inequality, and how these dynamics may mutually reinforce one another over time. The research further explores whether the resulting effects are perceived as opportunities for development or as sources of tension and conflict. Finally, it considers strategies for managing these challenges.



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Exploration Areas

- Antisemitism and Racism. Interdisciplinary explorations of a relationship (AnRa)
- Bielefeld Precision Medicine and Cellular Technologies (Bl.PREMAC) - Network
- Chatbots as Tutors at School (CATS)
- Dynamics of 24h-Rest-Activity Patterns and Variability in Psychological and Health Outcomes in Intensive Longitudinal Data (DAVID)
- Energy Transformations, Inequalities and Dependencies in Contemporary History (Energistories)
- Sociomaterial Practices of Biographization (SoMaBio)
- The Ethos of Religious Peacebuilders in Ukraine (ERPU)
- European Spaces of Memory: Transnational Narratives of occupation across Generations (ESTRANGE)
- Exclusion and Inclusion Processes in the Segregating School System – Accessibility and Acceptability (ExiSt)
- Explainable AI and Advanced Methodology for Statistical Analyses of Radiomics Data (EXAMS)
- From Accuracy to Precision: Advanced Methods for Diagnostic Tests (FRACTION)
- Health equity in time of crises and disruptions (HECoD)
- Immigrants' Minds Connect: An AI-Driven Digital Mental Hub for Wellbeing in Germany (ImMiCo)
- Interdisciplinary Aspects of Housing (IWo)
- Interpersonal interaction and perception (IPIP) - Network
- Into the Wild: Synergetic Development of Technological and Methodological Approaches for Future Real-World Experiments (WildWorld)
- The Art of Conflict (K_IKT)
- Leadership and Welfare in (Social) Transformation Processes (LeadWel)
- Teacher Education through Development, Application, and Reflection in the teutolab Network (LEARNlab)
- Literary-Studies Perspectives on *Literarische Bildung* (LiBlib)
- Television research in Literary Studies (LiFe)
- The Material as an Interface between Temporality and Historicity (MaTH)
- Mis(sing) Information in the Educational Sector (Mis/sl)
- Pathways from trauma and adversity to mental health (PATH)
- Diversity-sensitive research in mental illness (PED) - Netzwerk
- Science (Teacher) Identity (SciT-ID)
- Smart Products and Smart Services (SPASS)
- Sports in Prison (SpiP)
- Language and Communication in People with Epilepsy (SPRAKOE)
- Statistical Inference on Latent Structures from Sequential Data (SILAS)
- Sustainable Entrepreneurship
- Understanding Randomness as Functional Principle in Polymers and Proteins (URSUPPE)
- Approval and Liability of Automation Innovations (InnoHaZu)



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