

90 Years of Einstein- Podolsky-Rosen Paradox: Foundations and Applications

851. WE-Heraeus-Seminar

07 – 10 April 2026

at the Physikzentrum Bad Honnef, Germany

**WILHELM UND ELSE
HERAEUS-STIFTUNG**



Program

Tuesday, 07 April 2026

16:00 – 20:00	Registration	
18:00	<i>BUFFET SUPPER and informal get-together</i>	
19:15 - 19:30	Scientific organizers	Welcome words
19:30 – 20:30	Christoph Lehner	The tangled tale of entanglement: New discoveries from Schrödinger's research notes
20:30	Discussions	

Wednesday, 08 April 2026

08:00	<i>BREAKFAST</i>	
08:50 – 09:00	Scientific organizers	Organizational information
09:00 – 09:45	Howard Wiseman	Jumping from EPR to Steering, and unfolding from Bohr to Discord: a history of asymmetric nonlocality
09:45 – 10:30	Marco Túlio Quintino	Understanding the relationship between measurement incompatibility, EPR steering, and Bell nonlocality
10:30 – 11:00	<i>COFFEE BREAK</i>	
11:00 – 11:45	Dagmar Bruß	Characterising entanglement and separability
11:45 – 12:30	Glaucia Murta	tba
12:30 – 14:00	<i>LUNCH</i>	

Program

Wednesday, 08 April 2026

14:45 – 15:30	Mehul Malik	Overcoming loss in Steering and Bell scenarios with high-dimensional entanglement
15:30 – 16:00	Nicola D'Alessandro	Block moment-matrix relaxations for constrained quantum correlations
16:00 – 16:30	<i>COFFEE BREAK</i>	
16:30 – 18:00	Poster session 1	
18:00	<i>DINNER</i>	
20:15	Discussions	

Program

Thursday, 09 April 2026

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Margaret Reid	The Einstein-Podolsky-Rosen paradox and weak elements of reality in a Q-based, objective-field interpretation of quantum mechanics
09:45 – 10:30	Pavel Sekatski	Detecting entanglement with minimal assumptions
10:30 – 11:00	<i>COFFEE BREAK</i>	
11:00 – 11:45	Otfried Gühne	Quantifying quantum correlations from the geometric perspective
11:45 – 12:30	Armin Tavakoli	Classical models for quantum theory
12:30 – 14:00	<i>LUNCH</i>	
15:45 – 15:30	Ana Costa	EPR and the notion of quantum irre realism
15:30 – 16:00	Adrian Kent	Could EPR yet be (partly) right?
16:00 – 16:30	<i>COFFEE BREAK</i>	
16:30 – 18:00	Poster session 2	
18:00	<i>HERAEUS DINNER</i> (social event with cold & warm buffet with complimentary drinks)	
20:15	Discussions	

Program

Friday, 10 April 2026

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Paul Skrzypczyk	Post-quantum steering
09:45 – 10:30	Ana Belén Sainz	Einstein-Podolsky-Rosen steering beyond quantum theory
10:30 – 11:00	<i>COFFEE BREAK</i>	
11:00 – 11:45	Eric Chitambar	tba
11:45 – 12:30	Andreas Bluhm	Factorization of multimeters: a unified view on nonclassical quantum phenomena
12:30 – 12:45	Scientific organizers	Closing words
12:45	<i>LUNCH</i>	

End of the seminar and departure

NO DINNER for participants leaving on Saturday; however, a self-service breakfast will be provided on Saturday morning