

# Trends in Theory Symposium

16-17 May 2024  
WICC, Wageningen

## Thu 16 May

9:00	Arrival
10:50	Welcome
11:00	Mikhael Katsnelson (RU)
11:45	Jordy de Vries (UvA)
12:35	Lunch & posters
14:30	Jonas Helsen (CWI)
15:15	Timon Idema (TUD)
16:05	Coffee & posters
17:00	Herman Verlinde (Princeton)
17:45	Dinner
20:00	<i>Interactive panel discussion</i> Max Welling (UvA) Allard Mosk (UU) Jean-Sébastien Caux (UvA)
21:00	

## Fri 17 May

9:00	Shuxia Tao (TUE)
9:45	Daan Meerburg (RUG)
9:50	Coffee & posters
10:35	Zeila Zanolli (UU)
11:30	Lunch & posters
12:15	Anton Akhmerov (TUD)
14:00	Jordi Tura (UL)
14:45	Closing remarks
14:50	
15:35	
15:40	
15:50	

## Thu 16 May

Mikhael Katsnelson	Origin of classicality in quantum spin systems
Jordy de Vries	Effective field theory and the mysterious hints of a non-unitary quark mixing matrix
Jonas Helsen	The quantum PCP conjecture and you
Timon Idema	From balls and springs to colonies and tissues
Herman Verlinde	From quantum chaos to de Sitter cosmology
<i>Panel discussion</i>	AI in physics

## Fri 17 May

Shuxia Tao	Materials theory of halide perovskites: ion, charge, and spin dynamics
Daan Meerburg	Machine learning applications in cosmology
Zelia Zanolli	Quantum materials by design
Anton Akmerov	tba
Jordi Tura	Certifying spectral gaps of quantum many-body systems