

Program: Bethe Forum „Axions“

October 10 - 14, 2022
bctp, Bonn

	Monday, 10.10.	Tuesday, 11.10.	Wednesday, 12.10.	Thursday, 13.10.	Friday, 14.10.
9:00 - 10:00	Registration				
10:00 - 11:00	Discussions (including coffee break) Axion experiments led by Andreas Ringwald	Cluster decomposition, the index theorem, and the strong CP problem Carlos Tamarit	Distinguishing string-theoretic axions from field theoretical axions with precision study of axion couplings Kiwoon Choi (online meeting)	Baryon asymmetry from particle production during axion inflation Kai Schmitz	Axion assisted Schwinger effect Valerie Domcke
11:00 - 11:30	GW searches with axion detectors led by Valerie Domcke	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:30 - 12:30		The wave functional for the gauge field and CP violation/conservation Björn Garbrecht	Evolution of Peccei-Quinn fields for axions with relatively low decay constants Marek Olechowski	Non-Gaussian scalar and tensor modes from particle production during inflation Marco Peloso	Axion models with parametrically enhanced axion-gamma coupling Andreas Ringwald
12:30 - 14:00	Lunch Break	Lunch Break	Lunch Break	Lunch Break	End of program
14:00 - 15:00	Gravitational wave probes of axion-like- particles Pedro Schwaller	Axion quality and flavor from compositeness Peter Cox	Standard Model Axion Seesaw Higgs Inflation Extended for Dirac Neutrinos Max Berbig	Coffee and Bethe Colloquium in Lecture Hall I, Physics Institute!	
15:00 - 15:30	Coffee Break	Coffee Break	Coffee Break	Coffee: 15:45 - 16:15	
15:30 - 16:30	Dark energy from new confining force Jihn E. Kim	Discussion on Axions with extra dimensions	Discussion on Axions in string theory	16:15 - 17:30 Bethe Colloquium Axions and Axion-like- particles: recent progress Belen Gavela	
17:00 - 19:00	Reception				