

# Bethe Forum Discrete Symmetries

(Bonn April 3<sup>rd</sup> - April 7<sup>th</sup>, 2017)

Time	Monday, April 3 <sup>rd</sup>	Tuesday, April 4 <sup>th</sup>	Wednesday, April 5 <sup>th</sup>	Thursday, April 6 <sup>th</sup>	Friday, April 7 <sup>th</sup>
08.30 - 10:00	<b>Registration</b>				
	<u>Introduction to discrete group theory and their applications</u>	<u>Discrete symmetry and Higgs</u>	<u>CP, lepton mixing and discrete symmetry</u>	<u>Discrete family symmetry models</u>	<u>Discrete symmetry from string theory</u>
10:00 - 11:30	Morimitsu Tanimoto Introduction of finite group theory and flavour symmetry	Igor Ivanov Determining symmetries of multi-Higgs potentials	Walter Grimus Generalized CP invariance and cobimaximal mixing	Ivo de Medeiros Varzielas Discrete family symmetry models and unification	Patrick Vaudrevange What string theory can teach us about discrete symmetries and their anomalies
11:30 - 14:00	<b>Lunch Break</b>				
14:00 - 14:40	Renato Fonseca Plethysms and their applications in particle physics	Thomas Neder CP-odd Invariants for Multi-Higgs-Models and Applications to explicit, spontaneous, and geometric CP Violation	Claudia Hagedorn Connecting alpha, beta, delta and YB with flavor and CP symmetries	Martin Spinrath Neutrino Mass Sum Rules	George Leontaris F-theory models: some ways of being discrete
14:40 - 15:20		Gustavo Branco A Class of Two-Higgs-Doublet Models with controlled FCNC at Tree Level	Gui-Jun Ding Toward a unified interpretation of quark and lepton mixing from flavor and CP symmetries	Jessica Turner Flavour Symmetries at Colliders	
15:30	<b>Coffee</b>				
17:30 - 20:00	<b>Reception</b>				