2026数学物理方法

Friday, 10 April 2026

开题报告 (15:20 - 17:00)

time	[id] title	presenter
15:25	[1] The KLN Theorem and the Cancellation of Infrared Divergences	吴，争瑞
15:30	[2] Weinberg's Soft Theorem and Infrared Memory	
15:35	[3] The Analytic S-Matrix: Causality, Unitarity, and the Froissart Bound	LI, Zimu
15:40	[4] Precision QED and Feynman Integrals: The Quest for g−2	林，睿菲
15:45	[5] Topological Solitons: Kinks, Vortices, and Monopoles	姚，善韬
15:50	[6] The Trouble with Higher Spin: Rarita-Schwinger Fields and Acausality	
15:55	[7] The Unruh Effect: Why "Particles" Are Observer-Dependent	
16:00	[8] The Cosmological Collider: Particle Physics at the Dawn of Time	
16:05	[9] Spontaneous Symmetry Breaking and the Higgs Mechanism	
16:10	[10] The Method of Regions: Divide and Conquer in Feynman Integrals	WU, chenghuan
16:15	[11] Anomalies: When Quantum Mechanics Breaks Classical Symmetries	
16:20	[12] The Casimir Effect: Quantum Forces from Nothing	
16:25	[13] Entanglement Entropy in Quantum Field Theory	
16:30	[14] The Weizsäcker-Williams Method: From Fermi's Insight to the EPA	姜，文浩
16:35	[15] The Schwinger Effect: Vacuum Decay in Strong Electric Fields	
16:40	[16] The Divergence of Perturbation Theory: Why QFT Series Break Down	
16:45	[17] Inside the Proton: One-Loop DIS and the DGLAP Evolution	
16:50	[18] The Optical Theorem, Cutkosky Rules and Unstable Particles	
16:55	[19] The Weinberg-Witten No-Go Theorem	