

Symposium on Effective Field Theories and Lattice Gauge Theory
TUM IAS
May 18–21, 2016

Wednesday, May 18		Thursday, May 19		Friday, May 20		Saturday, May 21	
9:00	Registration starts at 8:30	Gerhard Buchalla Effective Field Theory for Strongly-Coupled Higgs		Peter Petreczky QCD Thermodynamics		Colin Morningstar Hadron Spectroscopy	
9:10	Welcome						
9:20	Christine Davies Standard Model Parameters from Lattice QCD	André Walker-Loud Massive Photons for QED+QCD		Johannes Weber Static Energy at $T > 0$		Gunnar Bali Hadroquarkonium in Lattice QCD	
9:30							
9:40							
9:50	Alexey Petrov Sidestepping Heavy-quark Masses in Precision Higgs Analyses	Johan Bijnens χ PT with Twisted Boundary Conditions		Joan Soto Effective Field Theories in Open Quantum Systems: Heavy Quarkonium in a Fireball		Matthias Berwein Hybrid Quarkonium with Nonrelativistic Effective Field Theories	
10:00							
10:10							
10:20	Coffee Break	Coffee Break		Coffee Break		Coffee Break	
10:30							
10:40							
10:50	Antonio Pineda Renormalons and Lattice Gauge Theory	Ignacio Cirac Quantum Optics and Lattice Gauge Systems		Harvey Meyer Transport Coefficients and Lattice QCD		Christopher Monahan Operator Product Expansion with Gradient Flow	
11:00							
11:10							
11:20	Christoph Lehner Muon $g-2$ Hadronic Vacuum Polarization	Mari Carmen Bañuls Matrix Product States for Lattice Field Theories		Nora Brambilla Discussion on Thermodynamics (w/ Meyer, Petreczky, Rothkopf, Soto, Vairo)		Zoltan Fodor Axion Cosmology	
11:30							
11:40							
11:50	Phaedon-Stelios Koutsourelakis Predictive Coarse-graining: A Bayesian Perspective	Karl Jansen Discussion on Matrix Product States (w/ Bañuls, Cirac, Meurice)		Gerrit Schierholz Lattice QED+QCD		Jack Laiho Renormalization of Lattice Quantum Gravity	
12:00							
12:10							
12:20	Lunch: IAS Faculty Club 4th floor	Lunch: IAS Faculty Club 4th floor		Lunch: IAS Faculty Club 4th floor		Lunch: IAS Faculty Club 4th floor	
12:30							
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12:50	Lunch: IAS Faculty Club 4th floor	Lunch: IAS Faculty Club 4th floor		Lunch: IAS Faculty Club 4th floor		Lunch: IAS Faculty Club 4th floor	
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14:00							
14:10							
14:20	Peter Stoffer Muon $g-2$ Hadronic Light by Light: Dispersive Approach	Christopher Sachrajda Lattice Kaon Physics		Constantia Alexandrou Nucleon Matrix Elements		Tour of MPQ/LMU quantum optics labs	
14:30	Taku Izubuchi Muon $g-2$ Hadronic Light by Light: Lattice QCD	Stephen Sharpe Chiral Perturbation Theory with Physical-Mass Ensembles		Richard Hill Effective Field Theory and the Proton Radius Puzzle			
14:40							
14:50							
15:00	Marina Marinkovic Discussion on muon $g-2$ (w/ Davies, Green, Izubuchi, Lehner, Petschlies, Stoffer)	Johan Bijnens Discussion on 21st Century χ PT (w/ Sachrajda, Sharpe, Zafeiropoulos)		Huey-Wen Lin x Dependent Parton Densities from Lattice QCD		Informal Get-together Biergarten	
15:10	Coffee Break	Coffee Break		Coffee Break			
15:20							
15:30							
15:40	Javad Komijani Heavy Quark Masses from Heavy Meson Masses	Paolo Gambino Heavy-Flavor Physics: CKM		Luis Alvarez-Ruso Hadronic Matrix Elements for Neutrino Cross Sections		Informal Get-together Biergarten	
15:50							
16:00							
16:10	Antonio Vairo α_s from the Static Energy	Aida El-Khadra Heavy-Flavor Physics: BSM		Will Detmold Lattice QCD and Nuclear Physics		Informal Get-together Biergarten	
16:20							
16:30							
16:40	Rainer Sommer Accuracy of QCD Perturbation Theory	Joachim Brod Discussion on Flavor Physics (w/ Buras, El-Khadra, Gambino, Monahan, Petrov)		André Walker-Loud Discussion on Nucleon Matrix Elements (w/ Alexandrou, Alvarez-Ruso, Detmold, Hill, Lin)		Informal Get-together Biergarten	
16:50							
17:00							
17:10	Andreas Kronfeld Discussion on α_s and quark masses (w/ Davies, Komijani, Petrov, Sommer, Vairo)	Joachim Brod Discussion on Flavor Physics (w/ Buras, El-Khadra, Gambino, Monahan, Petrov)		André Walker-Loud Discussion on Nucleon Matrix Elements (w/ Alexandrou, Alvarez-Ruso, Detmold, Hill, Lin)		Informal Get-together Biergarten	
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18:00							
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