

# Summer School on “Frontiers in Lattice QCD”

Peking University, June 24-July 12

Week1	Mon 6/24	Tue 6/25	Wed 6/26	Thu 6/27	Fri 6/28
Chair:	Xu Feng (PKU)	Chuan Liu (PKU)	Zhao-feng Liu (IHEP)	Zhi-hui Guo (Hebei N. U)	Yu-bin Liu (Nankai U.)
8am	Registration				
	Opening Speech				
9am	Introduction to Lattice QCD (Prof. Karl Jansen) 8:45-10:15	Introduction to Lattice QCD (Prof. Karl Jansen) 8:30-10:00	Introduction to Lattice QCD (Prof. Karl Jansen) 8:30-10:00	Lattice flavor physics (Prof. Chris Sachrajda) 8:30-10:00	Nonperturbative renormalization (Prof. Rainer Sommer) 8:30-10:00
10am	Break & Group Photo	Break	Break	Break	Break
11am	Lattice flavor physics (Prof. Chris Sachrajda) 10:30-12:00	Lattice flavor physics (Prof. Chris Sachrajda) 10:15-11:45	Isospin breakings & QCD+QED (Prof. Guido Martinelli) 10:15-11:45	Isospin breakings & QCD+QED (Prof. Guido Martinelli) 10:15-11:45	Isospin breakings & QCD+QED (Prof. Guido Martinelli) 10:15-11:45
12am					
13am					
14pm	Chiral Fermions (Prof. David Kaplan) 14:00-15:30	Chiral Fermions (Prof. David Kaplan) 14:00-15:30	Chiral Fermions (Prof. David Kaplan) 14:00-15:30	Chiral Fermions (Prof. David Kaplan) 14:00-15:30	Quantum Computing (Prof. David Kaplan) 14:00-15:00
15pm	Break	Break	Break	Break	Exercise & free discussion 15:00-17:00
16pm	Hadron-hadron interactions (Prof. Carsten Urbach) 15:45-16:45	ChPT & LQCD (Prof. Andre Walker-Loud) 15:45-16:45	$\epsilon_K$ or $V_{cb}$ (Prof. Weonjong Lee) 15:45-16:45	B physics (Prof. Stefan Meinel) 15:45-16:45	
17pm	Exercise & free discussion 16:45-17:30	Exercise & free discussion 16:45-17:30	Exercise & free discussion 16:45-17:30	Exercise & free discussion 16:45-17:30	
18pm					

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Week2

	Mon 7/1	Tue 7/2	Wed 7/3	Thu 7/4	Fri 7/5
Chair:	Qing-hong Cao (PKU)	Heng-tong Ding (CCNU)	Jia-jun Wu (UCAS)	Yan-qing Ma (PKU)	Ming Gong (IHEP)
8am					
9am	Nuclear Physics from lattice QCD (Prof. Sinya Aoki) 8:30-10:00	Nuclear Physics from lattice QCD (Prof. Sinya Aoki) 8:30-10:00	Nuclear Physics from lattice QCD (Prof. Sinya Aoki) 8:30-10:00	Nuclear Physics from lattice QCD (Prof. Sinya Aoki) 8:30-10:00	Nucleon matrix elements (Prof. Rajan Gupta) 8:30-10:00
10am	Break	Break	Break	Break	Break
11am	Nonperturbative renormalization (Prof. Rainer Sommer) 10:15-11:45	Nonperturbative renormalization (Prof. Rainer Sommer) 10:15-11:45	Muon g-2 (Prof. Luchang Jin) 10:15-11:45	Muon g-2 (Prof. Luchang Jin) 10:15-11:45	Muon g-2 (Prof. Luchang Jin) 10:15-11:45
12am					
13am					
14pm	Gradient flow (Prof. Hiroshi Suzuki) 14:00-15:30	Gradient flow (Prof. Hiroshi Suzuki) 14:00-15:30	Computational lattice QCD (Prof. Gregorio Herdoiza) 14:00-15:30	Computational lattice QCD (Prof. Gregorio Herdoiza) 14:00-15:30	Computational lattice QCD (Prof. Gregorio Herdoiza) 14:00-15:30
15pm	Break		Break		Break
16pm	Proton-neutron mass splitting (Prof. Antonin Portelli) 15:45-16:45	Exercise & free discussion 15:30-17:30	Gradient flow (Prof. Hiroshi Suzuki) 15:45-17:15	Exercise & free discussion 15:30-17:30	Nucleon matrix elements (Prof. Rajan Gupta) 15:45-17:15
17pm	Exercise & free discussion 16:45-17:30				
18pm					

# Summer School on “Frontiers in Lattice QCD”

Peking University, June 24-July 12

Week3		Mon 7/8	Tue 7/9	Wed 7/10	Thu 7/11	Fri 7/12
Chair:		Ying Chen (IHEP)	Yi-bo Yang (ITP)	Liu-ming Liu (IMPCAS)	Feng-kun Guo (ITP)	Xu Feng (PKU)
8am						
9am		LaMET and PDFs (Prof. Xiang-dong Ji) 8:30-10:00	LaMET and PDFs (Prof. Xiang-dong Ji) 8:30-10:00	LaMET and PDFs (Prof. Xiang-dong Ji) 8:30-10:00	Multi-particle&multi- channel scattering (Prof. Stephen R. Sharpe) 8:30-10:00	Multi-particle&multi- channel scattering (Prof. Stephen R. Sharpe) 8:30-10:00
10am		Break	Break	Break	Break	Break
11am		Multi-particle&multi- channel scattering (Prof. Stephen R. Sharpe) 10:15-11:45	Multi-particle&multi- channel scattering (Prof. Stephen R. Sharpe) 10:15-11:45	BSM Physics (Prof. David Lin) 10:15-11:45	BSM Physics (Prof. David Lin) 10:15-11:45	BSM Physics (Prof. David Lin) 10:15-11:45
12am						Closing
13am						
14pm						
15pm		Lattice effective field theory (Prof. Ulf -G. Meißner) 14:00-15:30	Lattice effective field theory (Prof. Ulf -G. Meißner) 14:00-15:30	Lattice effective field theory (Prof. Ulf -G. Meißner) 14:00-15:30	Lattice effective field theory (Prof. Ulf -G. Meißner) 14:00-15:30	
16pm		Break	Break	Break	Break	
17pm		Neutrinoless double beta decay (Prof. Amy Nicholson) 15:45-16:45	Finite temperature and density (Prof. Peter Petreczky) 15:45-17:15	Finite temperature and density (Prof. Peter Petreczky) 15:45-17:15	Finite temperature and density (Prof. Peter Petreczky) 15:45-17:15	
18pm		Exercise & free discussion 16:45-17:30	Exercise & free discussion 17:15-18:00	Exercise & free discussion 17:15-18:00	Exercise & free discussion 17:15-18:00	