

PKU-CUSTIPEN Workshop on

“Low-Energy Nuclear Dynamics and Effective Nuclear Interactions”

📅 Sep 17 - 19, 2018 📍 Peking University, Beijing, China

Supported by Peking University and CCAST(中国高等科学技术中心)

Sep. 16

18:00 Buffet dinner at ChenGuang Café (中关村新园晨光餐厅)

Sep. 17 Morning Session (Middle-212, Physics Building)

Time	Agenda
8:30-9:00	Registration
Chair	Furong Xu
9:00-9:10	Welcome address (Yanlin Ye, PKU)
9:10-9:50	Nuclear Shapes and Fission Dynamics (D. Vretenar)
9:50-10:30	Non-perturbative collective inertias in fission: a comparative study (L. Robledo)
10:30-11:00	Break and Photo
Chair	N. Schunck
11:00-11:35	Exploring dissipation properties in fission at high energy (Wei Ye)
11:35-12:00	Fission Fragment Study in Macro-Microscopic Model (Zhiming Wang)
12:00	Lunch

Sep. 17 Afternoon Session (Middle-212, Physics Building)

Chair	Shan-Gui Zhou
14:00-14:40	Density Functional Theory and Fermionic Superfluidity (P. Magierski)
14:40-15:05	The exact solution of pairing problem and the application to the fission nuclei (Xin Guan)
15:05-15:20	Damping Effects in Nuclear Reactions (Chuanqi He)
15:20-15:50	Tea Break
Chair	Feng-Shou Zhang
15:50-16:30	Role of octupole deformed shell effects on the fission of actinides (Guillaume Scamps)
16:30-17:00	An implementation of a 3D SHFB code in real space (Yue Shi)
17:00-17:15	Microscopic Studies of Nuclear Fission Fragments (Yu Qiang)
17:15-17:30	Deformed halos in carbon isotopes(Xiangxiang Sun)
18:00	Dinner at Heyuan Restaurant (中关村新园和园餐厅)

Sep. 18 Morning Session (Middle-212, Physics Building)

Chair	M. Kortelainen
9:00-9:40	Effective interactions in heavy-ion collisions (P. Stevenson)
9:40-10:15	Effective neutron-proton interactions in N=Z nuclei from a shell model perspective (Chong Qi)
10:15-10:40	Break
Chair	N. Hinohara
10:40-11:15	New algorithm in the calculations of low-lying nuclear states (Zaochun Gao)
11:15-11:50	High-K isomers in exotic nuclei by PNC-CSM method (Xiaotao He)
12:00	Lunch

Sep.18 Afternoon, free discussion

18:00: Buffet dinner at ChenGuang Café (中关村新园晨光餐厅)

Sep. 19 Morning Session (Middle-212, Physics Building)

Chair	Yu-Ming Zhao
9:00-9:40	Development of novel EDF for beyond mean field calculations (M. Kortelainen)
9:40-10:15	Constraints on Skyrme EDF from HICs (Yinxun Zhang)
10:15-10:40	Break
Chair	Shi-Wei Yan
10:40-11:20	Application of finite-amplitude method for nuclear collective motion (N. Hinohara)
11:20-11:55	Systematic shell model study and preliminary study on uncertainty of effective interaction (Cenxi Yuan)
12:00	Lunch

Sep. 19 Afternoon Session (Middle-212, Physics Building)

Chair	Junchen Pei
13:00-13:35	Uncertainty study in analyzing the Reactor Neutrino Anomaly based on the nuclear structure physics (Xiaobao Wang)
13:35-14:10	Gamow Coupled-Channel Model (Siming Wang)
14:10-14:35	Gamow IM-SRG (Baishan Hu)
14:35-14:50	Triangular polarization in C isotopes from a projected multidimensionally constrained RHB model (Kun Wang)
14:50-15:05	Realistic Three-Body Forces (Yuanzhuo Ma)
15:05	Closing
18:00	Buffet dinner at ChenGuang Café (中关村新园晨光餐厅)

Map for the Workshop

