

## “原子核相对论第一性原理计算”专题研讨会日程表

### Workshop on “Relativistic ab initio methods for atomic nuclei”

2023 年 11 月 17-19 日，北京

Nov. 17-19, 2023, Beijing

Nov. 17, 2023 (Friday)			
14: 00-20: 00	Registration 中核北京核科技园		
Nov. 18, 2023 (Saturday)			
9: 00-12: 00	Registration 中核北京核科技园		
12: 00-13: 00	Lunch		
13: 40-13: 50	Opening Chair: 张英逊 Yingxun Zhang		
13: 50-14: 00	Photo		
时 间 Time	报告人 Speaker	报告题目 Title	主持人 Chair
14: 00-14: 30	吕炳楠 Bing-Nan Lü	Renormalization, universality and emergence in nuclear many-body	左维 Wei Zuo
14: 40-15: 00	杨一龙 Yilong Yang	Relativistic EFT for the neutrinoless double beta decay $nn \rightarrow ppee$	
15: 10-15: 40	Tea Break 茶 歇		
15: 40-16: 10	赵鹏巍 Pengwei Zhao	Relativistic ab initio calculations with quantum Monte Carlo method	曹李刚 Ligang Cao
16: 20-16: 50	牛一斐 Yifei Niu	Novel ways to study nuclear giant resonances	
17: 00-17: 20	耿晶 Jing Geng	含时相对论 Hartree-Fock 理论的发展 Development of the time-dependent relativistic Hartree-Fock theory	
17: 25-17: 55	Discussion		赵鹏巍 Pengwei Zhao
18: 00	Banquet 晚 宴		

Nov. 19, 2023 (Sunday)			
时 间 Time	报告人 Speaker	报告题目 Title	主持人 Chair
9: 00-9: 30	Peter Ring	Why relativistic ab initio calculations for atomic nuclei?	张双全 Shuangquang Zhang
9: 40-10: 10	胡金牛 Jinniu Hu	相对论第一性原理计算对核物质性质的研究 Relativistic ab initio description for nuclear matter properties	
10: 20-10: 50	(Photo) (合影) Tea Break 茶 歇		
10: 50-11: 20	孙小东 Xiaodong Sun	DBHF 方法在核反应与核结构数据计算中的应用 DBHF for nuclear reaction and nuclear structure data	续瑞瑞 Ruirui Xu
11: 30-11: 50	王锶博 Sibo Wang	Relativistic ab initio description of nucleon-nucleus elastic scattering in the full Dirac space	
12: 00-14: 00	午 餐		
14: 00-14: 30	尧江明 Jiangming Yao	Multi-reference covariant density functional theory for the low-lying states of odd-mass nuclei	刘朗 Lang Liu
14: 40-15: 00	崔莹 Ying Cui	In-medium $\pi$ -related cross sections in asymmetric nuclear matter	
15: 05-15: 25	李征征 ZhengZheng Li	Toward a Unified Description of Isoscalar Giant Monopole Resonances in a Self-Consistent Quasiparticle-Vibration Coupling Approach	
15: 30-16: 00	Tea Break 茶 歇		
16: 00-16: 20	王宸璨 Chencan Wang	Low-momentum one-boson exchange potential and the application in relativistic nuclear matter calculation	田源 Yuan Tian
16: 25-16: 35	邹伟江 Weijiang Zou	Nuclear matter in the relativistic Brueckner Hartree-Fock approach with a leading order chiral force	
16: 37-16: 47	刘佳 Jia Liu	A shell model approach based on Relativistic Hartree-Fock theory	
16: 49-16: 59	杨钧评 Junping Yang	Revisit the effective mass splitting constraints from HICs	
17: 00-17: 50	Discussion and Closing		孟杰 Jie Meng
18: 00	Dinner 晚餐		