REIMEI Workshop on "Open quantum mechanics in nuclear, hadron and condensed-matter systems"

February 28 – March 4, 2022, ASRC, JAEA

Structure of the Workshop

9:	:00	10:00	11	:00	12:00	13:	:00	14:00	15:0	00	16:00	
Feb. 28					L	unch	Se	eminar	Discus	ssion	Semina	ar
Mar. 1	S	Seminar		Discussion		unch	Se	Seminar		Discussion		
Mar. 2		Mini workshop			L	unch		Mini workshop				
Mar. 3		Seminar		Discussion	n L	unch		Discussion		Seminar		
Mar. 4		Seminar		Discussion	n L	unch						

Seminars

February 28 (2nd Meeting Room, Administration Bldg. (情報交流棟第 2 会議室))

13:00-14:30 Takashi Mori (RIKEN)

Microscopic derivations of various quantum Markovian master equations

15:30-17:00 Kazunari Hashimoto (Yamanashi)

Non-adiabatic spin pumping induced by periodic magnetic field: a master equation approach

March 1 (ASRC Conference Room (先端基礎研究交流棟大会議室))

9:00-10:30 Tomio Petrosky (Texas)

Irreversibility and Complex Spectral Representation of the Liouvillian for Open Quantum and Classical System

13:00-14:30 Kazuyuki Ogata (RCNP, Osaka)

Spatial decoherence in multistep direct reactions

March 3 (ASRC Conference Room (先端基礎研究交流棟大会議室))

9:30-11:00 Savannah Garmon (Osaka Prefecture)

Anomalous-order exceptional point and non-Markovian Purcell

15:00-16:30 Masaaki Tokieda (Inria)

Open quantum systems approach to heavy-ion fusion reactions

March 4 (ASRC Conference Room (先端基礎研究交流棟大会議室))

9:30-11:00 Yukinao Akamatsu (Osaka)

Quarkonium as an open quantum system in the quark-gluon plasma

Mini workshop

March 2 (ASRC Conference Room (先端基礎研究交流棟大会議室))

9:30-10:10 Takayuki Myo (Osaka Inst. Tech.)

Resonances in light unstable nuclei with complex scaling

10:10-10:50 Yasuhiro Yamaguchi (ASRC, JAEA)

Hadronic molecules with pion exchange and multiquark couplings

Coffee Break

11:20-12:00 Akinobu Dote (KEK)

 \overline{K} -nuclear system with complex scaling method

Lunch

13:30-14:10 Philipp Gubler (ASRC, JAEA)

Proton-nucleus transport simulations to study the origin of hadron

14:10-14:50 Denny Sombillo (RCNP, Osaka)

Neutron lifetime anomaly as a consequence of time quantization

Coffee Break

15:20-16:00 Satoshi Tanaka (Osaka Prefecture)

Dynamical Casimir effect in terms of the complex normal mode of the symplectic Floquet-Liouvillian

16:00-17:00 Debashree Chowdhury (Indian Inst. Tech. Roorkee)

Non hermitian physics in topological systems