

Beyond the Standard RPA Approach — Program

CEA Saclay · 07–09 July 2026

DPhN Orme — Building 703, Room 45

Time	Tuesday 07/07	Wednesday 08/07	Thursday 09/07
9:15 — 9:30	Opening by organizers <i>Sophie Péru</i>		
9:30 — 10:00	N. Paar (30 min) <i>RPA as a Microscopic Theory of Nuclear Response: Foundations and Open Challenges</i> <i>Chair: E. Yüksel</i>	E. Litvinova (30 min) <i>Ab-initio nuclear response theory and emergent quasiparticle-vibration coupling</i> <i>Chair: S. Péru</i>	S. Péru (30 min) <i>Electromagnetic Transitions Between QRPA states</i> <i>Chair: D. Gambacurta</i>
10:00 — 10:30	T. Nikšić (30 min — Online) <i>Relativistic Quasiparticle Finite Amplitude Method</i> <i>Chair: E. Yüksel</i>	G. Colò (30 min) <i>Particle–Vibration Coupling with Non-Relativistic EDFs</i> <i>Chair: S. Péru</i>	E. Yüksel (30 min) <i>From QRPA to Finite-Temperature QRPA</i> <i>Chair: D. Gambacurta</i>
10:30 — 11:00	Coffee Break		
11:00 — 11:30	S. Péru (30 min) <i>QRPA in Deformed Nuclei</i> <i>Chair: E. Yüksel</i>	D. Gambacurta (30 min) <i>Nuclear excitations within the Second RPA rooted on the EDF framework</i> <i>Chair: S. Péru</i>	Focused Session (3 × 20 min) E. Yüksel — <i>Weak Transitions & Charge Exchange at finite temperature</i> G. Colò — <i>Gamma transitions between excited states</i> E. Litvinova — <i>Statistical vs microscopic descriptions of transitions between excited states beyond QRPA</i> <i>Chair: D. Gambacurta</i>
11:30 — 12:00	M. Frosini (30 min — Online) <i>Finite Amplitude Method for Deformed Nuclear Systems</i> <i>Chair: E. Yüksel</i>	F. Knapp (30 min) <i>Multi-Phonon Approaches to Nuclear Spectroscopy</i> <i>Chair: S. Péru</i>	
12:00 — 13:45	Lunch		
13:45 — 15:00	Round Table T1 <i>Deformed RPA/QRPA: What Are the Real Bottlenecks?</i> <i>Chair: D. Gambacurta</i>	Round Table T2 <i>What Are the Real Differences Between Beyond-RPA Models?</i> <i>Chair: E. Litvinova</i>	Round Table T3 <i>Transitions Between Excited States: What Can Current Methods Predict?</i> <i>Chair: S. Péru</i>
15:00 — 15:30	Coffee Break		
15:30 — 16:45	Round Table T1 (cont.) <i>Extensions of RPA/QRPA: Renormalized RPA, Charge Exchange, and Links to Experiment</i> <i>Chair: G. Colò</i>	Round Table T2 (cont.) <i>What Are the Real Differences Between Beyond-RPA Models?</i> <i>Chair: F. Knapp</i>	Final Round Table <i>Achievements, Open Problems, and Future Collaborations</i> <i>Chairs: N. Paar, E. Yuksel</i>
16:45	End		