

Theoretical Nuclear Physics in Padova:
a meeting in honor of Andrea Vitturi

Padova, 20 -21 May 2019

Palazzo Bo – Archivio Antico

Monday, May 20th

8:30 - 9:00	REGISTRATION	
9:00 - 9:45	OPENING AND WELCOME ADDRESS L. Fortunato, C. Dasso	
	Chair: Lorenzo Fortunato	
9:45 - 10:00	Angela Bonaccorso	Andrea's and mine: two "almost" parallel (scientific) lives
10:00 - 10:30	Edoardo Lanza	Low-lying dipole and quadrupole states: Are they "pygmy" states?
10:30 - 11:00	COFFEE BREAK	
	Chair: Santo Lunardi	
11:00 - 11:30	Gianluca Colò	Nuclear collective excitations and inelastic scattering
11:30 - 12:00	Tomohiro Oishi	Nucleon-emission process as a time-dependent quantum system
12:00 - 12:30	Jesús Casal	Three-body description of ^{12}C : From the hyperspherical formulation to the algebraic cluster model and its application to $\alpha+^{12}\text{C}$ inelastic scattering
12:30 - 13:30	LUNCH	

Monday, May 20th

Chair: Edoardo G. Lanza		
14:00 - 14:30	Ricardo A. Broglia	Soft modes, Cooper correlations and Josephson analogue: shedding light on the many-body nuclear system and its quantal phase transitions through structure and reactions
14:30 - 15:00	Hiroyuki Sagawa	Di-neutron correlation in halo nuclei
15:00 - 15:30	José Antonio Lay Valera	Two-nucleon transfer reactions and isoscalar pairing
15:30 - 16:00	Enrico Viguzzi	Quantitative account of the variety of nuclear structure observables in superfluid nuclei through particle-vibration coupling
16:00 - 16:30	COFFEE BREAK	
Chair: Clara E. Alonso		
16:30 - 17:00	Yulia Parfenova	Problem of the 2p-capture in astrophysics
17:00 - 17:30	Bogdan Fornal	Search for shape isomers by using the selectivity of heavy-ion transfer reactions
17:30 - 18:00	Mitko Gaidarov	Microscopic analysis of quasielastic scattering of neutron-rich nuclei $^{12,14}\text{Be}$
19:40	SOCIAL DINNER	

Tuesday, May 21st

		Chair: Claes Fahlander
9:00 - 9:30	Luciano Moretto	Exponential level densities, 1st order phase transitions and computational problems with the (grand) canonical ensemble
9:30 - 10:00	Takaharu Otsuka	Alpha clustering in nuclei and the shell model
10:00 - 10:30	Silvia Leoni	Spectroscopy of light nuclei as a testing ground for three-body forces and coupling to the continuum
10:30 - 11:00	COFFEE BREAK	
		Chair: José M. Arias
11:00 - 11:30	José-Enrique García-Ramos	On shape coexistence in zirconium region
11:30 - 12:00	Mahmut Büyükata	The application of the U(6/12) supersymmetry in odd-A nuclei along the N=101 isotonic chain
12:00 - 12:30	Panagiotis E. Georgoudis	Non-relativistic conformal symmetry in nuclear structure
12:30 - 13:00	Amiram Leviatan	Quantum butterfly catastrophe in the interacting boson model of nuclei
13:00 - 13:10	CLOSING REMARKS	

