



Sveučilište  
u Splitu  
University  
of Split

# First EQUAFLU Workshop on Quantum Correlations in Cold Atoms

University of Split, Faculty of Science

22 - 25 July 2024

22 – 25 July Internal research workshop for EQUAFLU team members  
23 July Open workshop session for researchers and students

## PROGRAM July 23<sup>rd</sup>

8:30-9:00	Registration and refreshments	
9:00-9:10	Welcome and introductory remarks	
9:10-9:50	Jordi Boronat	Quantum Monte Carlo based density functional for ultracold Bose gases
9:50-10:30	Robert Zilich	Effect of Correlations on Polarons and Solitons in 1D
10:30-11:10	Ferran Mazzanti	Dipolar Droplets of Polar Molecules
11:10- 11:30	Coffee break	
11:30-12:00	Leandra Vranješ Markić	Effect of squeezing on energies and structure of Bose-Bose droplets
12:00-12:30	Ivan Poparić	Vortices in squeezed Bose-Bose droplets
12:30 -12:50	Leandra Vranješ Markić	presentation of EQUAFLU research objectives
13:00-14:30	Lunch break	
14:30-16:00	Open discussion	

Registration deadline: July 18<sup>th</sup>

To register fill in the form: <https://forms.gle/bJaNKwGNwzVyTc6o7>