

4th Winter School of Computational Chemistry Program

Monday 12 Feb 2024		Tuesday 13 Feb 2024		Wednesday 14 Feb 2024		Thursday 15 Feb 2024	
9:00 – 9:45	Computational and Quantum Chemistry: Unraveling Molecular Insights Dr. Zahra Jamshidi	9:00 – 9:45	Exact and Approximate Wave Functions Dr. Zahra Jamshidi	9:00 – 9:45	The Standard Models, Part III Dr. Zahra Jamshidi	9:00 – 9:45	The Explicitly Corrected Wavefunctions: Looking beyond the Orbital-based Ab-initio Computational Method, Part II Dr. Shahbazian
10:00 – 10:45	Potential Energy Surface and Geometry Optimization Dr. Zahra Jamshidi	10:00 – 10:45	Matrices and Quantum Chemistry Dr. Mohammad Azami	10:00 – 10:45	Matrices and Quantum Chemistry Dr. Mohammad Azami	10:00 – 10:45	Transition State Exercise
10:45 – 11:15	Break						
11:15 – 12:00	Tutorial ORCA	11:15 – 12:00	The Standard Models, Part I Dr. Zahra Jamshidi	11:15 – 12:00	The Explicitly Corrected Wavefunctions: Looking beyond the Orbital-based Ab-initio Computational Method, Part I Dr. Shahbazian	11:15 – 12:00	TBA Prof. Siamak Nourizadeh
12:15 – 13:00	Tutorial ORCA	12:15 – 13:00	The Standard Models, Part II Dr. Zahra Jamshidi	12:15 – 13:00	Molecules in a Strong Magnetic Field. Prof. Trygve Helgaker	13:00 – 14:30	Molecular Dynamics after Photoexcitation, including non-Born-Oppenheimer Effects, Part II Prof. Horst Köppel
13:00 – 14:00	Break						
14:00 – 16:00	Geometry Optimization and Frequency calculation, Exercise	14:00 – 16:00	Post Hartree-Fock Exercise	14:00 – 16:00	Hartree-Fock and Population Analysis Exercise	14:30 – 16:00	UV-Vis spectroscopy, absorption spectrum, Exercise
16:00 – 16:30	Break						
16:30 – 18:00	Potential Energy Surface Exercise	16:30 – 18:00	Highly Accurate Quantum-Chemical Calculations Prof. Trygve Helgaker	16:30 – 18:00	Molecular Dynamics after Photoexcitation, including non-Born-Oppenheimer Effects, Part I Prof. Horst Köppel	16:30 – 18:00	Fluorescence and Phosphorescence Exercise

