Program

Cefipra Project "Q-Walker" kick-off Symposium

Time (India)	Time (Europe)	Mon 30th Nov 2020	Tue 1st Dec 2020
13:45-15:30	**9:15-11:00**	**Q-Walker**	**Molecular dynamics**
30+5 mins		**Opening** **Purnima Rupal, Director CEFIPRA** **Siva Umapathy, Director IISERB** **Philippe Turek, Deputy Vicepresident Unistra**	**Phillipp Hauke (Uni Trento)** *"Classical molecular dynamics on a quantum annealer"*
30+5 mins		**Sebastian Wüster (IISER Bhopal)** *"Quantum simulations of chemical and biological processes, using ultra-cold Rydberg atoms"*	**Alexander Eisfeld (MPIPKS Dresden)** *"Non-Markovian Quantum State Diffusion"*
30+5 mins		**Shannon Whitlock (Uni Strasbourg)** *"Complex systems dynamics with Rydberg atoms"*	**Servaas Kokkelmans (Uni Eindhoven)** *"Quantum computing and simulation with ultracold Rydberg atoms"*
15:30-15:45	**11:00-11:15**	Coffee break	Coffee break
15:45-17:30	**11:15-13:00**	**Excitation transport**	**Sensing and spectroscopy**
30+5 mins		**Varadharajan Srinivasan (IISER Bhopal)** *"Unraveling the mechanism of photo-induced sequence and conformation specific self-repair in a tetranucleotide"*	**Kaustav Mukherjee (IISER Bhopal)** *"Two-Dimensional Spectroscopy in Rydberg gases"*
30+5 mins		**Sayali Shevate (Uni Strasbourg)** *"Large arrays of atomic ensembles for quantum simulation and computation"*	**Rohan Singh (IISER Bhopal)** *"Spectral Diffusion of Excitons in Semiconductor Quantum Wells"*
30+5 mins		**Ritesh Pant (IISER Bhopal)** *"Excitation transport in molecular aggregates with thermal motion"*	**Phani Kumar Peddibhotla (IISER Bhopal)** *"Quantum Sensing with Nitrogen-Vacancy Centers in Diamond"*
17:30-19:30	**13:00-15:00**	Lunch, Tea or Dinner break	Lunch, Tea or Dinner break
19:30-21:15	**15:00-16:45**	**Online Poster session**	**Light-matter coupling**
30+5 mins			**Stéphane Berciaud (Uni Strasbourg)** *"Filtering the photoluminescence spectra of atomically thin semiconductors with graphene"*
30+5 mins			**Anna Roslawska (Uni Strasbourg)** *"Funneling energy at the molecular scale"*
30+5 mins			**Johannes Schachenmayer (Uni Strasbourg)** *"Transport and localization properties of dark states under strong light-matter coupling"*
21:15-21:30	**16:45:17:00**		**Closing**