CFEL SCIENCE

SEMINAR

24th May 2018 - 10:00 h

CFEL – Building 99, seminar room II+III (ground floor)

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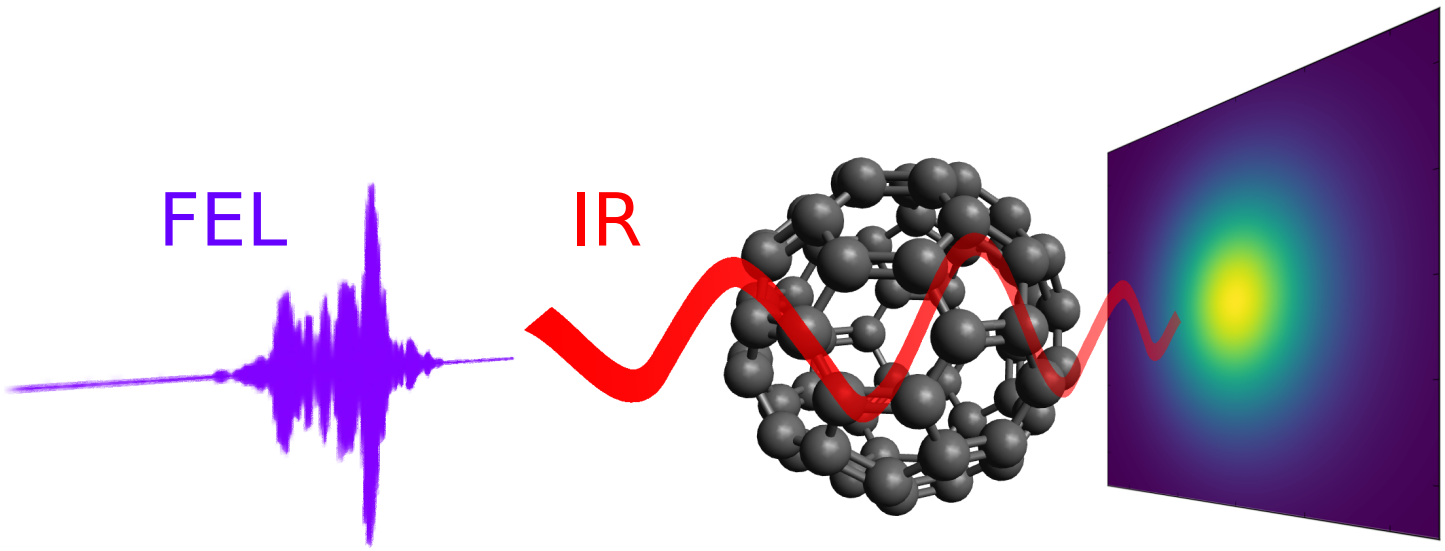
Imaging Strong-Field Induced Dynamics in C_{60} via X-Ray Scattering

Free-Electron Lasers (FELs) are capable of producing intense and ultrashort X-ray pulses, which enable femtosecond time-resolved diffractive imaging experiments. This allows the initiation of chemical reactions in molecules using an optical pump pulse and probing the induced changes in the nuclear structure by X-ray scattering using a delayed FEL pulse. Within this talk, results on the strong-field induced dynamics of C_{60} molecules probed by X-ray scattering will be presented. Two experiments performed at LCLS will be discussed, the first conducted at the AMO end station with an X-ray energy of 2 keV and the second at the CXI end station with a photon energy of 7 keV.



Host: Terry Mullins / CFEL Molecular Physics Seminar