

Oral Contributions

[MS1-02] Single-particle Structure and Dynamics A. Ourmazd*

*University of Wisconsin, 1900 E. Kenwood Blvd,
Milwaukee, WI 53211*

The advent of the X-ray Free Electron Laser has made it possible to record diffraction snapshots before the onset of radiation damage, with each snapshot emanating from an unknown orientation of a particle at a poorly defined time-point in its dynamic evolution. A new generation of algorithms promises the potential to recover the structure, conformations, and time evolution of single particles from such snapshots. This presentation offers an unvarnished, but not pessimistic assessment of this possibility.

* In collaboration with: P. Schwander, R. Fung, A. Hosseinzadeh, and A. Dashti.