

# **MBI DAY 2023**

## **Workshop: Research Projects of the Max-Born-Institute**

**Wednesday, January 18, 2023, 9.00 am**

9:00 Welcome and overview – M. Vrakking

### **Lasers and Light-Matter-Interaction**

9:05 1.1: Fundamentals of extreme photonics –

9:25 1.2: Ultrafast laser physics and nonlinear optics –

### **Ultrafast and Nonlinear Phenomena: Atoms, Molecules, and Clusters**

9:50 2.1: Time-resolved XUV science –

10:15 2.2: Strong-field few-body physics –

10:40 *Coffee Break*

### **Ultrafast and Non-Linear Phenomena: Condensed Phase**

11:00 3.1: Dynamics of condensed phase molecular systems –

11:25 3.2: Solids and nanostructures: Electrons, spins, and phonons –

11:50 3.3: Transient structures and imaging with x-rays –

12:15 *Lunch Break*

### **Infrastructure and Application Labs**

13:15 4.1: Implementation of lasers and measuring techniques –

13:40 4.2: Application labs & technology transfer –

14:05 4.3: Nanoscale samples and optics –

### **IT Infrastructure and Applications**

14:30 IT projects

14:55 Final discussion