

Mass Photometry:

Analytical technology for Biomolecular Characterization



INTRODUCTION:

Mass photometry is a label-free, single-molecule technique that measures the **mass of biomolecules in solution** with exceptional accuracy and sensitivity. By detecting the light scattered by individual molecules as they land on a glass surface, it enables **the direct analysis of molecular mass, oligomeric states, and complex formation in real time**. Mass photometry offers a **rapid, non-destructive** way to study proteins, nucleic acids, and biomolecular assemblies, making it a powerful tool for assessing **sample purity**, stoichiometry, and interactions under **native condition**. Key applications include the analysis of AAV particles (distinguishing between empty and full capsids, assessing packaging efficiency, etc.) and the study of antibodies and their interaction

Workshop is organized by Core Facility **Biomolecular Interaction and Crystallography** with collaboration of **Refeyn** and **SpeciOn**.

INVITED SPEAKER: BENJAMIN CAPPE (*Refeyn, Application Specialist*)

PROGRAM:

September 4, 2025

09:30 – 11:30 **INTRODUCTION TO MASS PHOTOMETRY AND THE INSTRUMENTATION**

11:30 – 12:30 *Lunch Break*

12:30 – 16:30 **HANDS-ON SESSION: TwoMP**

Live measurements of both reference and user-provided samples.

September 5, 2025

09:30 – 11:30 **ADVANCED APPLICATIONS AND FLUIDIC WORKFLOWS**

11:30 – 12:30 *Lunch Break*

12:30 – 16:30 **HANDS-ON SESSION: TwoMP AND MFx**

User-driven experiments and discussions on specific applications.

REGISTRATION:



RE•FEYN

SpeciOn |

CIISB

4-5/9/2025

University Campus Bohunice,
building E35/211
Masaryk University Brno,
Czech Republic