



SFB1242

Nichtgleichgewichtsdynamik kondensierter
Materie in der Zeitdomäne

UNIVERSITÄT
DUISBURG
ESSEN

Open-Minded

**14.05.2024 / 10 Uhr c.t., Raum MG 272
Campus Duisburg**

Femtosecond Molecular Fieldoscopy

Dr. Hanieh Fattahi

HU Berlin

Femtosecond Fieldoscopy is a novel metrology for ambient air detection of the electric field of light with high detection sensitivity, dynamic range, petahertz detection bandwidth, and high spatial resolution. These criteria offer unprecedented prospects in label-free spectroscopy and microscopy. In this talk, I present our recent results on the development of the ultrashort source required for Femtosecond Fieldoscopy, highly sensitive detection of biologically relevant molecules in the gas and liquid phase, and a roadmap toward high-resolution spectro-microscopy.

Für diese Zeit steht eine Kinderbetreuung nach vorheriger Anmeldung zur Verfügung.

Contact: Prof. Dr. Björn Sothmann, Faculty of Physics
Phone: +49 (203) 37-93330 / Mail: bjoerns@thp.uni-due.de