Monday, October 8th

9:45-10:00 Welcome
Prof. Rodolfo Miranda
Director of IMDEA Nanociencia

10:00-10:45 Novel relative microscopy tools to study biology and biomaterials at the nanoscale
Prof. Cristina Flors (IMDEA Nanociencia)

10:45-11:30 Illuminating interfaces in soft matter by single-molecule localization microscopy
Prof. Ilja Voets (TU Eindhoven)

11:30-12:00 Coffee break by Izasa Scientific
Hall IMDEA Nanociencia

12:00-12:45 The power of single molecule microscopy: from nanoparticle investigations to microbiome analysis
Prof. Johan Hofkens (KU Leuven)

12:45-13:30 A measure of molecular muscle: Development and application of fluorescence-based probes to map piconewton forces in living systems
Prof. Khalid Salaita (Emory University)

13:30-15:00 Lunch

15:00-15:45 Studies of particle dynamics in liquid and air
Prof. Kishan Dholakia (St. Andrews Univ.)

15:45-16:30 Probing single molecules with AFM: Force, motion, dynamics, and function
Prof. Anne-Sophie Duwez (Liege Univ.)

16:30-17:15 Exploring the dynamics of biological and synthetic molecular motors one at a time
Prof. Borja Ibarra (IMDEA Nanociencia)

Tuesday, October 9th

10:00-10:45 Optical control of strongly absorbing nanoparticles and their use in photothermal therapy
Lene Oddershede (Niels Bohr Institute)

10:45-11:30 Mesoscale organisation and dynamics of ions at biointerfaces
Prof. Kislon Voïtchovsky (Durham Univ.)

11:30-12:00 Coffee break - Hall IMDEA

12:00-12:45 Novel optical tweezers probes: how kinesin motors get to the microtubule end
Erik Schäffer (U. Tübingen)

12:45-13:30 Unveiling the stochastic behavior of biomolecules and nanoparticles in physiological environments
Prof. J. Ricardo Arias-González (IMDEA)

13:30-15:00 Lunch

15:00 Closure

Sponsors

Izasa Scientific
A Werfen Company

LUMICKS