

Jan Lipfert, Delft University of Technology, The Netherlands, Subgroup Chair

Molecular Biophysics Subgroup 2013 Symposium

Saturday, February 2, 2013

Philadelphia, Pennsylvania

9:00 AM, Taekjip Ha, University of Illinois, Urbana-Champaign
Single Molecule Fluorescence-Force Analysis of DNA and Nucleosome

9:30 AM, Paul Lebel, Stanford University
High-Speed Measurement of Twist, Torque, and Extension Using AuRBT: Method and Applications to DNA Physics and Nucleoprotein Dynamics

10:00 AM, Dominik Kauert, Dresden University of Technology, Germany
Single Molecule Mechanical Measurements Using 3D DNA-Origami Nanostructures

10:30 AM, Coffee Break

10:45 AM, Subgroup Business Meeting

11:00 AM, Michelle Wang, Cornell University
Biomolecular Processes under Torque

11:30 AM, Craig Hetherington, University of California, Berkeley
DNA Rotation During Viral Packaging Reveals Motor Mechanisms and Genome Organization

12:00 PM, John Marko, Northwestern University
Torque and Dynamics of Linking Number Relaxation in Stretched Supercoiled DNA

12:30 PM, Jan Lipfert, Delft University of Technology, The Netherlands
Probing the Response of Double-Stranded RNA to Force and Torque at the Single-Molecule Level

1:00 PM, Concluding Remarks