

2020



Schedule

SFB 803 WINTER SCHOOL

Georg-August-Universität Göttingen

05.– 06. March



Haus Hainstein

<http://www.haushainstein.de>

Am Hainstein 16

99817 Eisenach

Phone 03691-242 0

Fax 03691-242 109

Thuringia

Winter school 2020
05.03. – 06.03.2020
„Haus Hainstein“ Eisenach

Thursday, 05.03.2020

08:00 Departure by bus, Tammannstr. 2

10:00 Arrival Haus Hainstein / Check in

10:15 Coffee

1. Session

10:30	Welcome	Steinem, Claudia
10:40	Lipid dependent oligomerization of the ENTH domain of epsin 1 drives membrane deformation in clathrin-mediated endocytosis	Teske, Nelli
11:00	Kinetics and thermodynamics of synaptotagmin vesicle docking	Perez-Lara, Angel (zoom)
11:20	Several fusion pathways: SNARE-mediated membrane fusion with PSMs visualized by single-vesicle content release	Mühlenbrock, Peter
11:40	Probing SNARE-induced membrane fusion using peptidic model fusogens	Selvachandran, Pirajeev

12:00 Lunch

2. Session

13:00	Effects of arginine derivatives and oligopeptides on the physical properties of model membranes	Verbeek, Sarah
13:20	Free energy simulations of pore formation	Kasparyan, Gari
13.40	Modeling multiple ion channels by HMMs	Jula Vanegas, Laura/ Eltzner, Benjamin

Winter school 2020

05.03. – 06.03.2020

„Haus Hainstein“ Eisenach

14:00 Coffee Break

14:30 Walk to the Wartburg ca. 1,3 km

15:10 Guided tour: Wartburg (10,00 EUR per person)

[\(https://www.wartburg.de/de/\)](https://www.wartburg.de/de/)

ca. 17:30 PI meeting / Members meeting

18:30 Buffet and get-together



Winter school 2020
05.03. – 06.03.2020
„Haus Hainstein“ Eisenach

Friday, 06.03.2020

1. Session

09:00	Artificial transmembrane β -peptides	Kloos, Martin
09:20	Peptide tilt angles in POPC measured with PELDOR	Tkach, Igor
09:40	Lipid-protein interactions in TREK-2 mechanosensing	Daday, Csaba
10:00	Minimum free energy paths of membrane transformations during fusion	Smirnova, Yuliya

10:25 Coffee Break

2. Session

10:50	Structural determinants of lipid membrane thickening at close distances	Heinz, Leonard
11:10	α -synuclein aggregation intermediates and where to find them	Antonschmidt, Leif
11:30	Probing protein to drug-candidate interactions in the membrane by DNP-enhanced solid-state NMR	Dervisoglu, Riza
11:50	NMR spectroscopy of a helical membrane protein	Yu, Tea-Kyung

12:10 Group photo

12:15 Lunch

Winter school 2020

05.03. – 06.03.2020

„Haus Hainstein“ Eisenach

3. Session

13:15	Probing lipid diffusion with fluorescence	Oleksiievets, Nazar
13:35	Resolving leaflet dependent diffusion using graphene-based metal-induced energy transfer (gMIET) microscopy	Sharma, Akshita
13:55	Phase-separation in pore-spanning membranes induced by differences in surface adhesion	Sibold, Jeremias
14:15	Development of a science camp with reference to SFB 803 - connecting adapted primary literature and experiments	Aljets, Hilko
14:35	Closing remarks	Steinem, Claudia

14:45 Coffee and departure by bus

17:00 Arrival in Göttingen