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EUTOPIA-1 TENTATIVE PROGRAM

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Monday (arrival)

Tuesday (Opening session and introduction)

08.30 - 09.00. MC member registration
09.00 - 10.30 MC meeting part I
10.30 - 11.00 coffee break
11.00 - 12.30 MC meeting part II
12.00 - 12.30 registration non MC members
12.30 - 14.00 lunch
14.00 - 14.30 Meeting start: presentation and description of the event
14.30 - 15.00 WG 1 intro by Antti Niemi and Simon Copar
15.00 - 15.30 WG 2 intro by Achille Giacometti and Angelo Rosa
15.30 - 16.00 coffee break
16.00 - 16.30 WG 3 intro by Joanna Sulkowska
16.30 - 17.00 WG 4 intro by Davide Michieletto and Dorothy Buck
17.00 - 17.30 WG 5 intro
17.45 - 19.30 Poster session (poster will remain displayed in the following days)
19.30 Social dinner

Wednesday (Miniworkshops WG 1 and 2)

09.00 - 10.30 WG 1 part I

09:00 - 09:40 Alexei Morozov - General introduction to topology, strings, knots …
09:40 - 10:00 Egor Babaev - Hopfions in superconductors
10:00 - 10:30 Nevena Ilieva - Topological aspects of protein folding

10.30 - 11.00 coffee break

11.00 - 12.30 WG 1 part II

11:00 - 11:30 Piotr Sulkowski - Knots, knot invariants and knots in proteins
11:30 - 12:00 Franco Ferrari - The analytical approach to topological structures in nature: challenges and new perspectives
12:00 - 12:30 Round Table - forward look for WG1

12.30 - 14.30 lunch

14.30 - 16.00 WG 2 part I

Topics: Topological effects in generic polymer systems, CG polymer models, Active polymers

2x15mins:
- Andrey Milchev - Polymer systems under topological constraints
- Enzo Orlandini - Knotting and linking in polymeric systems

5x5mins:
- Jan Smrek - Thermally-induced phase separation in polymers
- Valentino Bianco - Overview on structural and dynamical properties of active polymers
- Marina Scarpa - Nanocellulose self-assembly into soft materials
- Davide Michieletto - Threadings in systems of ring and tadpole shaped polymers

30 mins: Discussion

16.00 - 16.30 coffee break

16.30 - 18.00 WG 2 part II

Topics: Polymeric gels, Characterization of biopolymer topological properties (linking number, torsion, writhe, etc...)

2x15mins:
- Ivan Coluzza - Patchy polymers: A bridge between synthetic polymers and biopolymers
- Kalina Peneva - Experimental polymer design for drug delivery

5x5mins:
- Felix Schacher - Modern polymer chemistry: From tailor-made materials to Lego(c) for grown-ups
- Luca Tubiana - Knotted and linked polymers: A short overview of new and old open problems

Thursday (Miniworskhops WG 3 and 4)

09.00 - 10.30 WG 3 part I

9.00-9.30 Joanna Sulkowska: 15 minutes introductory talk: state-of-the-art, open problems according to the MoU, Possible cross-collaboration with the other WG's (5 mins), Discussion (10 mins).

9.30 – 10.00 Talks by WG members
9.30 – 09.45 Dimos Goundaroulis: Knotoids and Protein Structure: A primer on the mathematical theory and the available computational tools
Discussion (5 min.)
9.50 – 10.05 Marek Cieplak: Knots in intrinsically disordered proteins
Discussion (5 min.)
10.10 - 10.25 Ivan Coluzza: Transferable coarse-grained potential for de novo protein folding and design
Discussion (5 min.)

10.30 - 11.00 coffee break

11.00 - 12.30 WG 3 part II

11.00 – 11.15 Pawel-Dabrowski-Tumanski: Deterministic Knots in proteins
Discussion (5 min.)
11.20 – 11.35 Bartosz Greń Non-trivial lasso in proteins and polymers
Discussion (5 min.)
11.40-12.30 Round Table

12.30 - 14.30 lunch

14.30 - 16.00 WG 4 part I

10 minutes talks:
Eoin Hurley - TBA
Giada Forte - DNA Braids
Agnese Barbensi - DNA Unknotting via Topoisomerase
Andrzej Stasiak - Chromatin unknotting
Dusan Racko - Chromatin & TADs
Cristian Micheletti - TBA
Slobodan Zdravkovic - Nonlinear dynamics of DNA and microtubules
Bojana Lucic - TBA
Noam Kaplan - TBA

16.00 - 16.30 coffee break

16.30 - 18.00 WG 4 part II

1.5h round table

Friday (Miniworkshop WG 5)

09.00 - 10.30 WG 5 part I

10.30 - 11.00 coffee break

11.00 - 12.30 WG 5 part II

12.30 - 13.00 closing
13.00 - 14.00 lunch (for those who stay)

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