"Majorana conference about single file dynamics in biophysics & related fields & extension in higher dimensions."
July 4 through July 9, 2014

The PLAN

Day 1:
Through the first day: Gathering.
8:16pm: Opening statements from the organizers.

2nd day:
*** Session 1: about general basic results in single file dynamics & various biophysical processes.

*** 9 until 9:25: Fabio Marchesoni: Introduction
*** 9: 25 – 10:24: Alessandro Taloni: *"interacting single file systems: a single particle approach"*

*** A 14 minute coffee break

***** 10:38 : 11:39 Eli Barkai:** Everlasting effect of initial conditions on single-file diffusion.

*** 10 minutes coffee break

*** 11:49 – 12:25: Ophir Flomenbom, **Advanced properties in Single File Dynamics.**

*** Lunch + free time

*** 14:25 - 15:25: A 60 minute poster session with at least 5 presenters: Anna Vasylenko, Tommy Dessup, Lucena Diego, Kwinten Nelissen, Gajda Janusz, & others.

*** 35 minute free time

*** Session 2: about files with force & potential, special relations, & biophysical processes.

16 through 16:59, Henk van beijeren *"On the tight connection between collective and tagged particle motion in singe file dynamics."*

16:59 : 17:45: Deepk Kumar: "Correlations in Single File Diffusion : Open and Closed Systems "

*** A 14 minute coffee break

*** 18: 18:45, **Takeshi OOshida,** "Collective motion in dense colloidal suspensions calculated with a two-dimensional version of the Alexander-Pincus formula in a convected coordinate system"

*** Dinner + free time

9:16pm (several hours): A social event where scientists can also talk about the science in a relaxed atmosphere

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3rd day:
*** Session 3: about files in physics, conductance, helium, materials science

9 until 10:14: François Peeters, Introduction, & Vyacheslav Misko: "single-file diffusion of charged particles".

*** A 14 minute coffee break

10:14 : 10: 59: Paul Leiderer, "Transport of Surface State Electrons on liquid helium through narrow channels"

*** A 14+ minute coffee break

11:16 until 11:59: David Rees, "Single File Transport of Classical Electrons on the Surface of Liquid Helium"

*** Lunch + free time

14:58: 15:25: special intermediate lecture

*** A 35 minute break

*** Session 4: advanced properties in files.

16 until 16:45: C COSTE: "Longitudinal and Transverse Single File Diffusion in Quasi-1D Systems."

*** 16:45 : 17:29, Artem Ryabov, "*Single-file system with absorbing boundary: Tracer dynamics and first-passage properties*"

*** 14 minute coffee break

17:43 : 18:25: **Michael Lomholt,** *"Universality and non-universality of mobility in heterogeneous single-file systems".*

*** Dinner + free time

9:16pm (several hours) A social event where scientists can also talk about the science in a relaxed atmosphere

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4th day:
*** Session 5: about files in channel: biological channels & other channels.

9 until 9:34: Remigijus Lape: “On the Activation Mechanism of Pentameric Ligand-Gated Ion Channels”

9:34 until 10:08: John E Pearson: “Inferring Reaction Networks from Single Molecule Data”

10:08 through 10:43 Luciano Moffatt: “Kinetic information out of macroscopic fluctuations”

*** 16 minute coffee break

10:59 through 11:35: BERT de Groot, *"The molecular dynamics of single file ion and water permeation"*

11:35 through 12:09: Lorin Milescu: “From single molecules to cells: testing ion channel models in live neurons”

*** Lunch + free time

14:25: 15:25: special short lecture session: Diego Lucena, Sabyasachi Dasgupta, Kwinten Nelissen,

*** A 35 minute break

*** session 6: files & extensions in higher dimensions in biophysics

16 - 16:35: Ophir Flomenbom: Single file dynamics & clustering: “**Slow files in 1d & higher dimensions”.**

16:35 : 17:34: Cécile Fradin: Experiments on crowding: *“Studying the effect of molecular crowding on diffusion with variable length scales experiments”*.

17:35 : 18:34, Thomas Franosch: “Rounding of the localization transition in model crowded media”.

*** Dinner + free time

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5th day:

*** Session 7: zeolites & further various files in physics.

9 until 9:59: Jörg Kärger: "Experimental Evidence of Single-File Constraints in Nanoporous Host-Guest Systems: Mysteries of Guest Diffusion in the Channel Network of Zeolites"

10 : 10:45, Pino Suffritti, "Problems in modelling single-file diffusion of water adsorbed in zeolites: computer simulations and comparison with recent theory".

*** A 14 minute coffee break

10:59 : 11:44, Wim Wenseleers, "1D ordering of single molecular files in carbon nanotubes"

11:44 through 12:34, Philipse, A.P., "Single-file Helical and Dipolar Colloids in Thermo-Reversible Micro-Tubes".

*** Lunch + free time

14:25: 15:25: short lecture session: we might arrange another 3 short lectures.

Free afternoon: we will try arranging a tour in the area.

special dinner

6th day:
Session 8:
9 until 9:25: Concluding statements. documents about activity's continuation.

RELEASE

The navy participating in the funding

http://www.onr.navy.mil/en/Science-Technology/ONR-Global.aspx

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