

Network dynamics : Synthesis, structure and mechanical properties



Les Houches, 26th Feb - 1st March

Organising Committee

Kirsten Martens

*LIPhy, Grenoble Alpes University
& CNRS, France*

Jean-Louis Barrat

*LIPhy, Grenoble Alpes University
& CNRS, France*

Emanuela Del Gado

Georgetown University, USA



Welcome to the Ecole de Physique des Houches!



History of the School

Print 

Share    



[Cécile DeWitt-Morette](#)

Les Houches School of Physics has been welcoming physicists from around the world since 1951. The School has seen the biggest names in modern physics training young researchers at the start of their careers, some of whom have since won Nobel prizes for physics. The school perpetuates a tradition of excellence, while continuing to adapt to the evolutions of science.

le figaro

jeudi 22 février 2024



L'École de physique des Houches, située en bordure d'une forêt de sapins, accueille des chercheurs et des doctorants.

Dans la vallée de Chamonix, cette école qui « fabrique les Prix Nobel »

In this "Cécile DeWitt's building" you'll find

- The poster sessions
- The library
- Free computers with a copy machine/scan
- 2 kitchens you can use for coffee breaks
 - Coffee and tea are free. Please wash your cup/glass/spoon
 - Cold drinks cost 1€ : please record what you take on the list by your name, and pay for them before leaving at the reception office



Please don't bring any drinks in the lecture room and in your bedroom!

In this "Cécile DeWitt's building", you'll find:

➤ The reception office:

- To pay registration fee (before Wednesday noon)
- To buy goodies (sweat-shirts, postcards, cups,...)
- To get touristic information
- To pay drinks
- To register the first day if you came with your car

Internet

- WiFi : available in each building
EDUROAM or WiFi Campus
Not possible to connect 2 devices at the same time
(computer and phone)
Disconnect properly

The restaurant "Les Balmes"

- Times of meals:
 - Breakfast: from 7:45 to 8:45
 - Lunch: 12:30
 - Dinner: 19:30
- Restaurant bar, downstairs, below the restaurant:
 - After lunch and dinner, coffee and tea are free
 - Cold drinks : put your name on the list and pay at breakfast
 - Code for the Balmes building : on the pin code list
- Lunch box is available: register at the restaurant, two days before at lunch time

Accomodation

➤ Rooms:

- No key on the doors but a small safe in every room
- Cleaning in the morning
- In case of emergency: +33/0)6 789 852 40 (caretaker: Patrick).
- On the last day: vacate the room by 9:00
- We are recycling: please use the appropriate bins
- Please switch off lights when leaving the rooms

Activities

- The following are at your disposal on site for leisure activities:
- Bikes, frisbee, pétanque balls and badminton rackets in summer
- Snowshoes
- Table soccer, ping-pong table, piano in the lounge bar area
- Maps for mountain trekking
- Useful information for mountain sports
(ask at the Secretary's Office and the Caretaker)

PRACTICAL INFORMATION

The school property is at your disposal for the session; please respect it and if possible improve it.

The last person leaving any room or building should turn the lights off.

BARRIERS

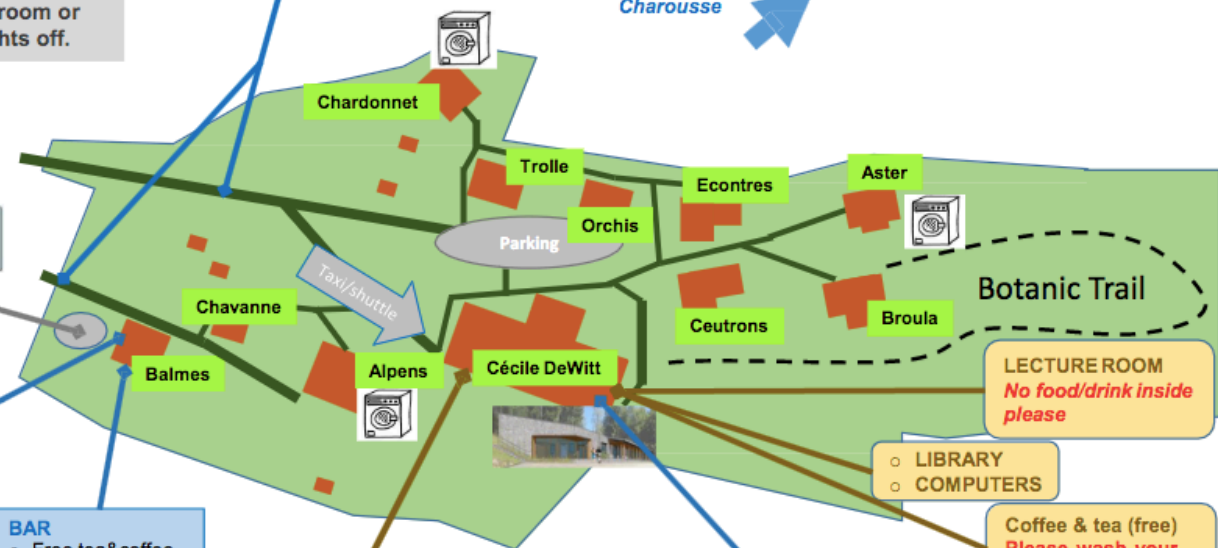
- o If you come by car, please report to reception on arrival



Charousse

GARDEN

Our neighbours thank you for keeping this place not too noisy and quiet after 22:30



RESTAURANT

- o Breakfast : 7:45 → 8:45
- o Lunch : 12:30 pm
- o Dinner : 19:30 pm
- o Picnic : participants who wish a lunch box instead of a meal should register on the list 48h in advance
- o Drinks (not included) can be bought on individual basis and paid here

BAR

- o Free tea&coffee
- o Table tennis, table football, piano, white boards

CARETAKER

- o Phone: +33(0)6 78 98 52 40 (in case of emergency or serious problem only)

RECEPTION

- o Information, pass for barriers taxi booking, help, requests, ...
- o To be paid : - school fee : 1st day
- o - cold drink : last day

LECTURE ROOM

No food/drink inside please

o LIBRARY
o COMPUTERS

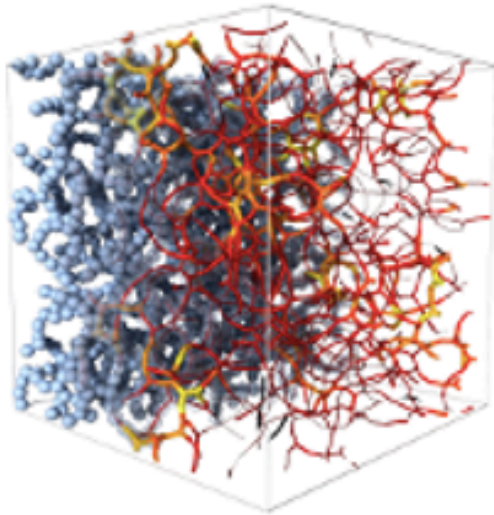
Coffee & tea (free)
Please wash your cups & glasses



Mountain activities are at your own risk

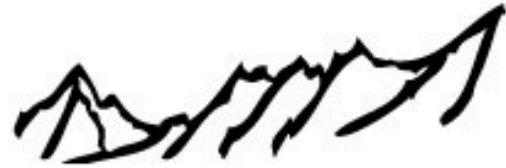
Before any hike or climb, please put a note on the special book provided and include the name of the participants, approximate itinerary, schedule and phone number. We draw your attention to the fact we only hold a collective insurance for accidents occurring on the school campus.


Washing Machines & dryers
Free use & washing powder



Network dynamics :

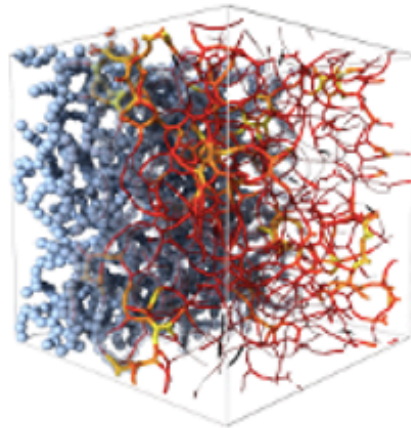
Synthesis, structure and mechanical properties



Les Houches, 26th Feb - 1st March

Idea:

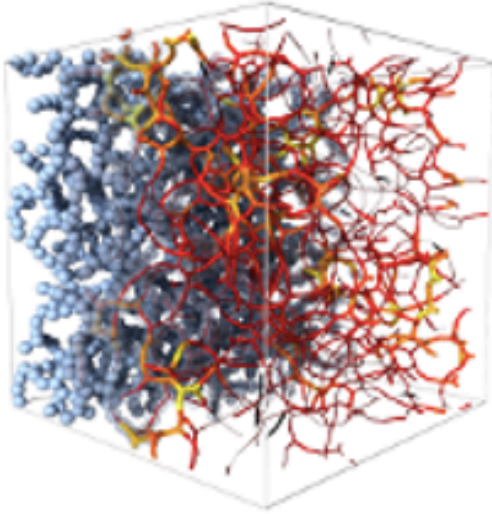
Physics



Biophysics

Chemistry

Engineering



Network dynamics :

Synthesis, structure and mechanical properties



Les Houches, 26th Feb - 1st March

Topics

Aging and Relaxation

Structural Heterogeneities

Network mechanical properties at Small and Large Amplitude Deformations

Rigidity Percolation, Soft Modes and Stressed States

Creep and Precursors to Failure

Design and Control of Mechanical Instabilities

Updated program

Network dynamics: Synthesis, structure and mechanical properties

| | Monday | | Tuesday | | Wednesday | | Thursday | | Friday |
|-------|------------------|-------|------------------|-------|----------------------|-------|-------------------|-------|------------------|
| | Session 1 | | Session 3 | | Session 5 | | Session 7 | | Session 9 |
| 09:00 | Opening | 09:00 | Divoux | 09:00 | Van der Gucht | 09:00 | Du Roure | 09:00 | Ninarelo |
| 09:30 | Ramos | 09:30 | Ruta | 09:30 | Vermant | 09:30 | Lenz | 09:30 | Aime |
| 10:00 | Richard | 10:00 | Köry | 10:00 | Blin | 10:00 | Kumar | 10:00 | Ioannidou |
| 10:20 | Coffee | 10:20 | Coffee | 10:20 | Coffee | 10:20 | Coffee | 10:20 | Coffee |
| 10:50 | Svaneborg | 10:50 | Vernerey | 10:50 | Lerner | 10:50 | Janmey | 10:50 | Sevink |
| 11:20 | Leocmach | 11:20 | Goren | 11:20 | Fielding | 11:20 | Morlet-Decarnin | 11:10 | Shohat |
| 11:40 | Coulon | 11:40 | Dmitrieff | 11:40 | Javerzat | 11:40 | Vahdati | 11:30 | Diaz Ruiz |
| 12:00 | Orr | 12:00 | Grober | 12:00 | Mendels | 12:00 | Vassaux | 11:50 | Final Discussion |
| 12:30 | Lunch | 12:30 | Lunch | 12:30 | Lunch | 12:30 | Lunch | 12:30 | Lunch |
| | Session 2 | | Session 4 | | Session 6 | | Session 8 | | |
| 17:30 | Hugovieux | 17:30 | Jamali | 17:30 | Petekidis | 17:30 | Cipelletti | | |
| 18:00 | Bouzid | 18:00 | Merkel | 18:00 | | 18:00 | Sorichetti | | |
| 18:30 | Le Goff | 18:30 | Flash Talks | 18:30 | Poster Session | 18:30 | Maekinen | | |
| 19:00 | | 19:00 | | 19:00 | | 19:00 | Open discussion | | |
| 19:30 | Dinner | 19:30 | Dinner | 19:30 | Dinner | 19:30 | Conference dinner | | |

Titles and abstracts

MAIN MENU

Home

Topics

Context

Program

Abstract booklet

Important dates

My registration

Fees

Venue information

Practical information of the
School

List of Participants

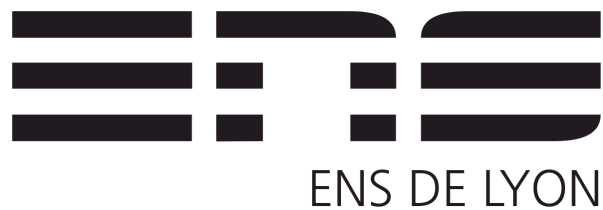
Gallery

WELCOME



<https://netdyn2024.sciencesconf.org/>

We thank for funding!



Thank you for your attention

Enjoy your stay
at the *Ecole de Physique des Houches!*