

Interdisciplinarity conference on many-body theory

Third general congress of the NBODY research network

Nancy — June 16 to 18, 2025

*N-body problem in quantum chemistry, condensed matter
physics, nuclear physics, and mathematics*



INTERDISCIPLINARITY CONFERENCE ON MANY-BODY THEORY

Nancy — June 16 to 18, 2025

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I. Presentation of the NBODY research network, and aim of this congress

The NBODY research network was created in January 2019. It aims at bringing together the community working on the N -body problem from the viewpoint of quantum chemistry, condensed-matter physics, nuclear physics, and mathematics. The idea is to foster the development of new computational methods in quantum mechanics, the transfer of these methods from one discipline to another, and their efficient computer implementations. To reach this goal, the research network organizes interdisciplinary conferences and workshops. It is also particularly involved in training students and researchers *via* the organization of several interdisciplinary international schools. The NBODY research network has a web site that can be accessed by clicking [\[here\]](#).

As for the first two general NBODY congresses, the aim of this event is to reinforce the already existing collaborations, and to support the initiation of new ones. Another goal is to favor the integration of PhD students, postdocs, and young researchers in the community. Finally, we would like to facilitate the dialogue between the different topics by including presentations with a pedagogical perspective.

II. General information and venue

Campus: *Faculté des Sciences et Technologies, Vandoeuvre-lès-Nancy*

Building: *Victor Grignard*

Lecture room: *Amphi VG8*

II.1 Reaching Nancy

The town of Nancy can be reached through two railway stations of the French national railway company — the SNCF (check their [\[web site\]](#) for ticket reservation) — : the “Nancy gare SNCF” located at the city-center; or the “Lorraine TGV” station with a connection bus line toward the city center of Nancy. The “Nancy Gare SNCF” in the city center is actually located at 1h30 by train from Paris and Luxembourg.

The three closest airports are the [\[Luxembourg airport\]](#), the [\[Bâle-Mulhouse airport\]](#), and the [\[Lorraine airport\]](#). The Lorraine airport is located between Nancy and Metz.

II.2 Reaching the campus

The lectures will take place on the “campus de la faculté des sciences et technologies de Nancy”. The campus can be reached from the city center using one of the two following local public transport lines:

- (i) the Tempo 3 (**T3**) line from the city center (for example, from the “Tour Thiers Gare stop”) in the direction of Villers Campus Science. The building is next to the terminus stop;
- (ii) the Tempo 1 (**T1**) from the city center (for example, from the “Gare — Pierre Semard” stop) in the direction of Vandoeuvre Brabois-Hôpitaux. The campus is next to the “Vélodrome-Callot” and the “Le Reclus” stops.

You can consult the map of the public transport network of Nancy (STAN) by clicking [\[here\]](#). The schedules files for the T3 and T1 lines can be consulted by clicking [\[here\]](#). For each of these lines, the period of interest for us is the Green one (*Période verte — semaine scolaire, du lundi au vendredi*). For your information, the two target schedule files [extracted on April 28, 2025] are also given at the end of this document.

II.3 Reaching the lecture room

The lectures will take place in the Victor Grignard building, in the VG8 amphitheater (“Amphi VG8”). A map of the campus and a map of the building are given at the end of the present document.

II.4 Before and during the lectures

We leave it to the participants to arrange their own accommodation. In case of emergency, please reach this phone number: 0033 625 899 778. Do not hesitate to use the local-contact e-mails of [\[Séverine Bonenberger\]](#), [\[Thibaud Etienne\]](#) or [\[Jérémy Morere\]](#) in case you have any question.

III. Registration and abstract submission

III.1 Registration

For organizational purposes, registration to the school is free of charge but mandatory. Please send an e-mail to [\[NBODY2025@proton.me\]](mailto:NBODY2025@proton.me). In your registration e-mail, please provide us with the following:

1. FIRST NAME
2. LAST NAME
3. AFFILIATION

Registration is open until **June 2, 2025** in the limit of a hundred participants.

III.2 Abstract submission

Abstract submission for a contributed talk is now closed. Abstract submission for a poster presentation is still open until **June 2, 2025**. You can download the template you need for your request (poster presentation), either in the Word or LaTeX format, at the following link: [\[LINK\]](#). To submit your abstract, please send it to the following e-mail address: [\[NBODY2025@proton.me\]](mailto:NBODY2025@proton.me).

IV. Provisional schedule

In the following table, “IT-XX” means “Invited talk XX” and “CT-XX” means “Contributed talk XX” with the number (XX) corresponding to the number of the abstract in this booklet.

<i>Day 1</i>	<i>June 16, 2025</i>		<i>Amphi VG8</i>
12h00		<i>Organizing committee</i>	Welcoming cocktail
13h30		Matteo Gatti	IT-01
14h00		Marios-Petros Kitsaras	CT-01
14h30		Christian Schilling	IT-02
15h00		Michael Herbst	IT-03
15h30			Coffee break
16h00		Ewa Pastorcza	IT-04
16h30		Stéphanie Egome Nana	CT-02
17h00		Fabris Kossoski	IT-05
17h30		Jérémy Morere	CT-03
18h00			Poster session
19h00			Dinner
<i>Day 2</i>	<i>June 17, 2025</i>		<i>Amphi VG8</i>
8h30		Lea M. Ibele	IT-06
9h00		Spondon Sarma	CT-04
9h30		Victor Després	CT-05
10h00			Coffee break
10h30		Louis Garrigue	IT-07
11h00		Clémentine Barat	CT-06
11h30		Geneviève Dusson	IT-08
12h00		Clément Guillot	CT-07
12h30			Lunch
14h00		Mikael Frosini	IT-09
14h30		Guillaume Hupin	IT-10
15h00		Michael Urban	IT-11
15h30		Elias Khan	IT-12
16h00			Coffee break
16h30		Benjamin Lenz	IT-13
17h00		Stefano Paggi	CT-08
17h30		Carlos Mejutos-Zaera	IT-14
18h00		Carlos Rodriguez-Perez	CT-09
18h30			“Apéro” and Dinner
<i>Day 3</i>	<i>June 18, 2025</i>		<i>Amphi VG8</i>
8h30		David Ferenc	CT-10
9h00		Timothée Audinet	CT-11
9h30		Ryan Benazzouk	CT-12
10h00		André Gomes	CT-13
10h30			Coffee break
11h00		Pauline Colinet	IT-15
11h30		Emmanuel Giner	CT-14
12h00		Hélène Bolvin	IT-16
12h30		Saad Yalouz	IT-17
13h00			Lunch and departures

V. Organization of the congress and financial support

V. Organizing committee

Séverine BONENBERGER
Thibaud ETIENNE
Jérémy MORERE
Julien TOULOUSE

V.2 Scientific committee

Lorenzo Ugo ANCARANI
Eric CANCÈS
Thomas DUGUET
Emmanuel FROMAGER
Emmanuel GINER
Pascal GRANGER
Maria HELLGREN
Pierre-François LOOS
Paola NAVA
Pina ROMANIELLO
André SEVERO PEREIRA GOMES
Julien TOULOUSE
Morgane VACHER

V.3 Financial support

We would like to warmly thank the following departments for their generous financial support:

- The faculty of science and technology for lending us the amphitheater
- The CPM scientific pole of the university of Lorraine
- The C2MP PhD school of the university of Lorraine
- The laboratory of theoretical physics and chemistry (CNRS and university of Lorraine)
- The CNRS, through the NBODY research network
- The European Research Council (ERC) through the “European Union’s Horizon Europe” research and innovation program (Grant agreement No. 101163469)

T3

PÉRIODE VERTE
SEMAINE SCOLAIRE

DU LUNDI AU VENDREDI

HORAIRES EN SERVICE
À PARTIR DU 7 AVRIL 2025

DIRECTION MILLERS Campus Sciences

Seichamps Haie Cerlin	05:00	05:30	06:00	06:11	06:21	06:31	06:41	06:49
Essey Porte Verte	05:09	05:39	06:09	06:20	06:30	06:40	06:51	06:59
Essey Mouzimpré	05:14	05:44	06:14	06:25	06:35	06:45	06:57	07:05
Place des Vosges	05:27	05:57	06:27	06:38	06:48	06:58	07:12	07:20
Tour Thiers Gare	05:34	06:04	06:34	06:45	06:55	07:05	07:21	07:29
Provinces	05:44	06:14	06:45	06:56	07:06	07:17	07:38	07:46
Villers Mairie	05:49	06:19	06:50	07:01	07:11	07:22	07:45	07:53
Villers Campus Sciences	05:53	06:23	06:55	07:06	07:16	07:27	07:51	07:59

Seichamps Haie Cerlin	06:56	07:03						
Essey Porte Verte	07:06	07:13						
Essey Mouzimpré	07:12	07:19						
Place des Vosges	07:27	07:34						
Tour Thiers Gare	07:36	07:43						
Provinces	07:53	08:00						
Villers Mairie	08:00	08:07						
Villers Campus Sciences	08:06	08:13						

Seichamps Haie Cerlin	21:00	21:20	21:40	22:00	22:30	23:00	23:30	23:59
Essey Porte Verte	21:08	21:28	21:48	22:08	22:38	23:07	23:37	00:06
Essey Mouzimpré	21:13	21:33	21:53	22:13	22:43	23:12	23:42	00:11
Place des Vosges	21:25	21:45	22:05	22:25	22:55	23:24	23:54	00:23
Tour Thiers Gare	21:33	21:53	22:13	22:33	23:03	23:32	00:02	00:31
Provinces	21:45	22:05	22:25	22:45	23:15	23:44	00:14	00:43
Villers Mairie	21:50	22:10	22:30	22:50	23:20	23:49	00:19	00:48
Villers Campus Sciences	21:54	22:14	22:34	22:54	23:24	23:53	00:23	00:52

DIRECTION SEICHAMPS Haie Cerlin

Villers Campus Sciences	05:00	05:30	06:00	06:11	06:21	06:31	06:41	06:49
Villers Mairie	05:05	05:35	06:05	06:16	06:26	06:36	06:46	06:54
Provinces	05:09	05:39	06:09	06:20	06:30	06:40	06:50	06:58
Saint-Léon	05:20	05:50	06:21	06:32	06:42	06:52	07:03	07:11
Place des Vosges	05:28	05:58	06:29	06:40	06:50	07:00	07:11	07:19
Essey Mouzimpré	05:39	06:09	06:40	06:51	07:01	07:13	07:24	07:32
Essey Porte Verte	05:45	06:15	06:47	06:58	07:08	07:20	07:31	07:39
Seichamps Haie Cerlin	05:54	06:24	06:56	07:07	07:17	07:29	07:41	07:49

Villers Campus Sciences	06:56	07:03						
Villers Mairie	07:01	07:08						
Provinces	07:05	07:12						
Saint-Léon	07:18	07:25						
Place des Vosges	07:26	07:35						
Essey Mouzimpré	07:40	07:50						
Essey Porte Verte	07:48	07:58						
Seichamps Haie Cerlin	08:00	08:10						

Villers Campus Sciences	21:00	21:20	21:40	22:00	22:30	23:00	23:30	00:13
Villers Mairie	21:05	21:25	21:45	22:05	22:35	23:05	23:35	00:18
Provinces	21:08	21:28	21:48	22:08	22:38	23:08	23:38	00:21
Saint-Léon	21:20	21:40	22:00	22:20	22:50	23:20	23:50	00:33
Place des Vosges	21:28	21:48	22:08	22:28	22:58	23:28	23:58	00:41
Essey Mouzimpré	21:40	22:00	22:20	22:40	23:10	23:40	00:10	00:53
Essey Porte Verte	21:45	22:05	22:25	22:45	23:15	23:45	00:15	00:58
Seichamps Haie Cerlin	21:54	22:14	22:34	22:54	23:24	23:54	00:24	01:07



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2, PLACE DE LA RÉPUBLIQUE
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03 83 30 08 08

WWW.RESEAU-STAN.COM
APPLI IPHONE ET ANDROID
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DIRECTION WANDOEUVRE Brabois - Hôpitaux

Essey Mouzimpré	04:00	04:15	04:30	04:45	05:00	05:10	05:20
Mairie de Saint-Max	04:09	04:24	04:39	04:54	05:09	05:19	05:29
Point Central	04:17	04:32	04:47	05:02	05:17	05:27	05:37
Gare - Saint-Léon	04:22	04:37	04:52	05:07	05:22	05:32	05:42
Jean Jaures	04:25	04:40	04:55	05:10	05:25	05:35	05:45
Vélodrome - Callot	04:31	04:46	05:01	05:16	05:31	05:41	05:51
Vandœuvre Brabois - Hôpitaux	04:41	04:56	05:11	05:26	05:41	05:51	06:01

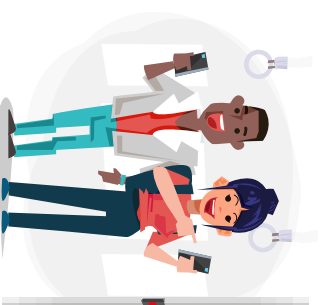
Essey Mouzimpré	UN DÉPART TOUTES LES 10 MINUTES DE 19H À 21H						
Mairie de Saint-Max	21:10	21:25	21:40	21:55	22:10	22:25	22:40
Point Central	21:18	21:33	21:48	22:03	22:18	22:33	22:48
Gare - Saint-Léon	21:26	21:41	21:56	22:11	22:26	22:41	22:56
Jean Jaures	21:32	21:47	22:02	22:17	22:32	22:47	23:02
Vélodrome - Callot	21:35	21:50	22:05	22:20	22:35	22:50	23:05
Vandœuvre Brabois - Hôpitaux	21:41	21:56	22:11	22:26	22:41	22:56	23:11
	21:51	22:06	22:21	22:36	22:51	23:06	23:21

Essey Mouzimpré	22:55	23:10	23:25	23:40	23:55	00:15
Mairie de Saint-Max	23:03	23:18	23:33	23:48	00:03	00:23
Point Central	23:11	23:26	23:41	23:56	00:11	00:31
Gare - Saint-Léon	23:17	23:32	23:47	00:02	00:17	00:37
Jean Jaures	23:20	23:35	23:50	00:05	00:20	00:40
Vélodrome - Callot	23:26	23:41	23:56	00:11	00:26	00:46
Vandœuvre Brabois - Hôpitaux	23:36	23:51	00:06	00:21	00:36	00:56

DIRECTION ESSEY Mouzimpré

Vandœuvre Brabois - Hôpitaux	04:50	05:05	05:20	05:35	05:50	06:00	06:10	06:20
Vélodrome - Callot	04:58	05:13	05:28	05:43	05:58	06:08	06:18	06:28
Jean Jaures	05:04	05:19	05:34	05:49	06:04	06:14	06:24	06:35
Gare - Saint-Léon	05:08	05:23	05:38	05:53	06:08	06:18	06:28	06:39
Point Central	05:12	05:27	05:42	05:57	06:12	06:22	06:32	06:43
Mairie de Saint-Max	05:20	05:35	05:50	06:05	06:20	06:30	06:40	06:51
Essey Mouzimpré	05:27	05:42	05:57	06:12	06:27	06:37	06:47	06:59

Vandœuvre Brabois - Hôpitaux	22:15	22:30	22:45	23:00	23:15	23:30	23:45	00:00	00:15
Vélodrome - Callot	22:23	22:38	22:53	23:08	23:23	23:38	23:53	00:08	00:23
Jean Jaures	22:30	22:45	23:00	23:15	23:30	23:45	00:00	00:15	00:30
Gare - Saint-Léon	22:34	22:49	23:04	23:19	23:34	23:49	00:04	00:19	00:34
Point Central	22:38	22:53	23:08	23:23	23:38	23:53	00:08	00:23	00:38
Mairie de Saint-Max	22:46	23:01	23:16	23:31	23:46	00:01	00:16	00:31	00:46
Essey Mouzimpré	22:54	23:09	23:24	23:39	23:54	00:09	00:24	00:39	00:54



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Légende

1C Entrées

Barrières

Arrêts bus Suburbain

Arrêts bus Réseau stant

Arrêts Tram

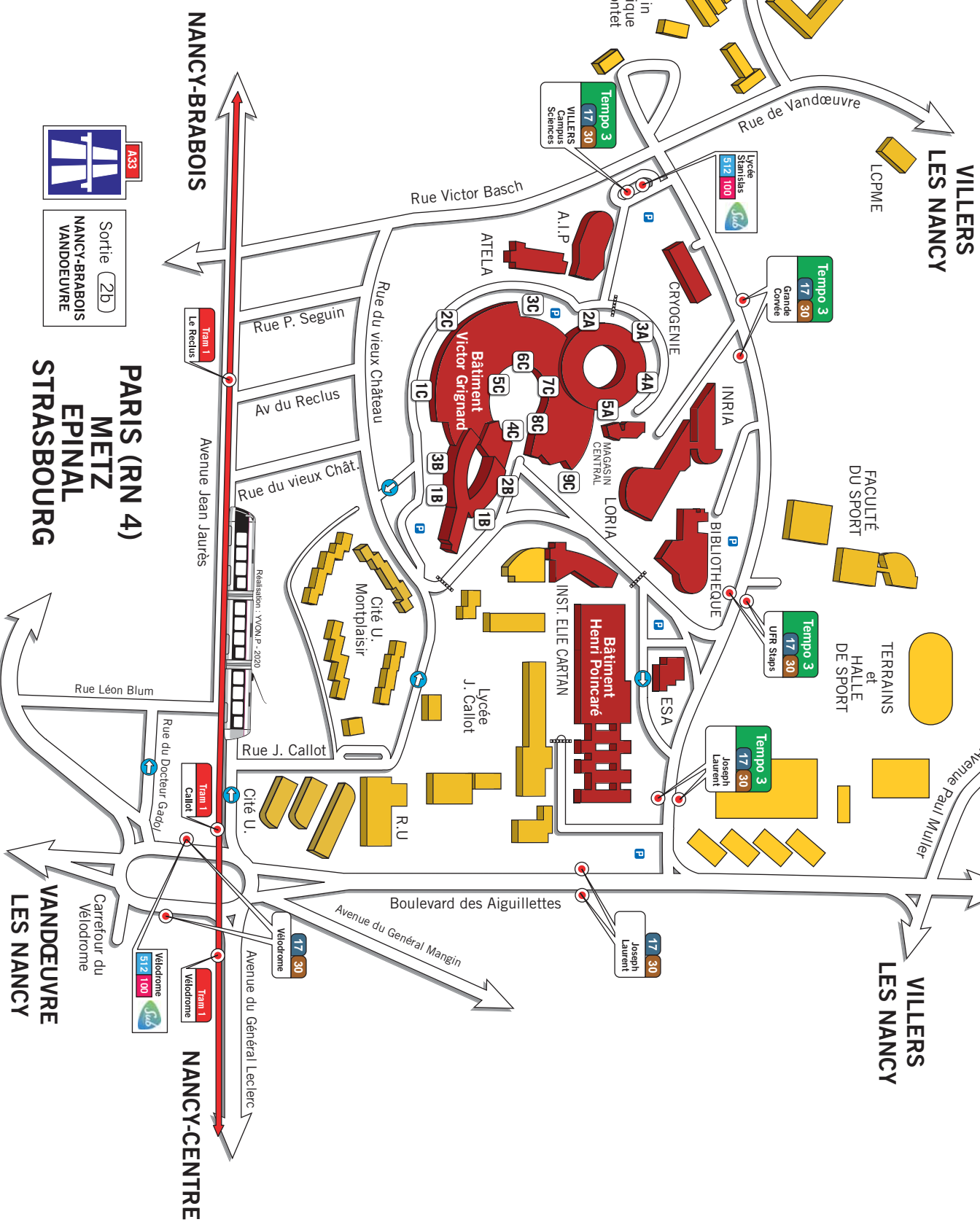
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Vélodrome








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Tempo 3 17 30

UFR Staps



Bâtiment Victor Grignard 3ème niveau - Salles VG

-  Services informatique et techniques
-  Amphithéâtres VG1 à VG8
-  Salles VG 301 à VG 324
-  Salles VG3 TP 1 à VG3 TP 48
-  Associations
-  Toilettes
-  Espace vert (extérieur)

