

CONTINUUM FOUNDATIONS OF LATTICE GAUGE THEORIES

FIRST CERN-NORDIC SCHOOL
22-26 July 2024, CERN, Geneva

Lectures

Dispersive methods	Gilberto Colangelo (Bern)
Inverse Problems	Luigi Del Debbio (Edinburgh)
Quantum Computing	Zohreh Davoudi (Maryland)
Resurgence	Gerald Dunne (Connecticut)

Organisers

Justus Tobias Tsang (CERN, Chair)	Andreas Jüttner (CERN/Southampton)
Michele Della Morte (Odense)	Simon Kuberski (CERN)
Matteo Di Carlo (CERN)	Alexander Rothkopf (Stavanger)
Felix Erben (CERN)	

Registration at: <https://indico.cern.ch/event/1342488>



WELCOME

to our joint CERN - Nordic school on

Continuum Foundations of Lattice Gauge Theories

All information can also be found on the indico page: [HERE](#)

Michele Della Morte, Matteo Di Carlo, Felix Erben, Andreas Jüttner, Simon Kuberski,
Alexander Rothkopf, J. Tobias Tsang.

CERN TH Lattice group



Matteo Di Carlo



Felix Erben



Jacob Finkenrath



Andreas Jüttner



Simon Kuberski



Tobi Tsang



Associate
Alexei Bazavov

Line-up for this week

	22 Jun 2024	23 Jun 2024	24 Jun 2024	25 Jun 2024	26 Jun 2024
09:30	Registration (09:30) - TH Conference Room	09:30	09:30	09:30	09:30
09:50	Workshop - Tamas Tseung (CERN) (09:50- TH Conference Room)	09:50	09:50	09:50	09:50
10:00	Dispersive Methods - Gilberto Colangelo (joint 10:00) (09:00- TH Conference Room)	10:00	10:00	10:00	10:00
10:30	Lecture 1 - Gilberto Colangelo (09:30- TH Conference Room)	10:30	10:30	10:30	10:30
10:45	--- Coffee break ---	10:45	10:45	10:45	10:45
11:00	Inverse Problems - Luigi Del Debbio (The University of Edinburgh) (09:00- TH Conference Room)	11:00	11:00	11:00	11:00
11:15	Quantum Computing - Zohreh Davoudi (University of Maryland) (joint 11:15) (09:00- TH Conference Room)	11:15	11:15	11:15	11:15
11:30	Lecture 2 - Zohreh Davoudi (University of Maryland) (09:00- TH Conference Room)	11:30	11:30	11:30	11:30
11:45	--- Coffee break ---	11:45	11:45	11:45	11:45
12:00	Resurgence - Gerald Dunne (joint 12:00) (09:00- TH Conference Room)	12:00	12:00	12:00	12:00
12:15	Lecture 3 - Gerald Dunne (09:00- TH Conference Room)	12:15	12:15	12:15	12:15
12:30	--- Lunch ---	12:30	12:30	12:30	12:30
12:45	Dispersive Methods - Gilberto Colangelo (joint 12:45) (09:00- TH Conference Room)	12:45	12:45	12:45	12:45
13:00	Lecture 4 - Gilberto Colangelo (09:00- TH Conference Room)	13:00	13:00	13:00	13:00
13:15	Quantum Computing - Zohreh Davoudi (University of Maryland) (joint 13:15) (09:00- TH Conference Room)	13:15	13:15	13:15	13:15
13:30	Lecture 5 - Zohreh Davoudi (University of Maryland) (09:00- TH Conference Room)	13:30	13:30	13:30	13:30
13:45	--- Coffee break ---	13:45	13:45	13:45	13:45
14:00	School dinner (joint 14:00) (09:00- TH Conference Room)	14:00	14:00	14:00	14:00
14:15	Resurgence - Gerald Dunne (joint 14:15) (09:00- TH Conference Room)	14:15	14:15	14:15	14:15
14:30	Lecture 6 - Gerald Dunne (09:00- TH Conference Room)	14:30	14:30	14:30	14:30
14:45	--- Coffee break ---	14:45	14:45	14:45	14:45
15:00	Dispersive Methods - Gilberto Colangelo (joint 15:00) (09:00- TH Conference Room)	15:00	15:00	15:00	15:00
15:15	Lecture 7 - Gilberto Colangelo (09:00- TH Conference Room)	15:15	15:15	15:15	15:15
15:30	Social Events (joint 15:30) (09:00- TH Conference Room)	15:30	15:30	15:30	15:30
15:45	Resurgence - Gerald Dunne (joint 15:45) (09:00- TH Conference Room)	15:45	15:45	15:45	15:45
16:00	Lecture 8 - Gerald Dunne (09:00- TH Conference Room)	16:00	16:00	16:00	16:00
16:15	--- Coffee break ---	16:15	16:15	16:15	16:15
16:30	Dispersive Methods - Gilberto Colangelo (joint 16:30) (09:00- TH Conference Room)	16:30	16:30	16:30	16:30
16:45	Lecture 9 - Gilberto Colangelo (09:00- TH Conference Room)	16:45	16:45	16:45	16:45
17:00	Quantum Computing - Zohreh Davoudi (University of Maryland) (joint 17:00) (09:00- TH Conference Room)	17:00	17:00	17:00	17:00
17:15	Lecture 10 - Zohreh Davoudi (University of Maryland) (09:00- TH Conference Room)	17:15	17:15	17:15	17:15
17:30	--- Coffee break ---	17:30	17:30	17:30	17:30
17:45	Resurgence - Gerald Dunne (joint 17:45) (09:00- TH Conference Room)	17:45	17:45	17:45	17:45
18:00	Lecture 11 - Gerald Dunne (09:00- TH Conference Room)	18:00	18:00	18:00	18:00
18:15	Dispersive Methods - Gilberto Colangelo (joint 18:15) (09:00- TH Conference Room)	18:15	18:15	18:15	18:15
18:30	Lecture 12 - Gilberto Colangelo (09:00- TH Conference Room)	18:30	18:30	18:30	18:30

- Gilberto Colangelo — Dispersive Methods
- Luigi Del Debbio — Inverse Problems
- Zohreh Davoudi — Quantum Computing
- Gerald Dunne — Resurgence

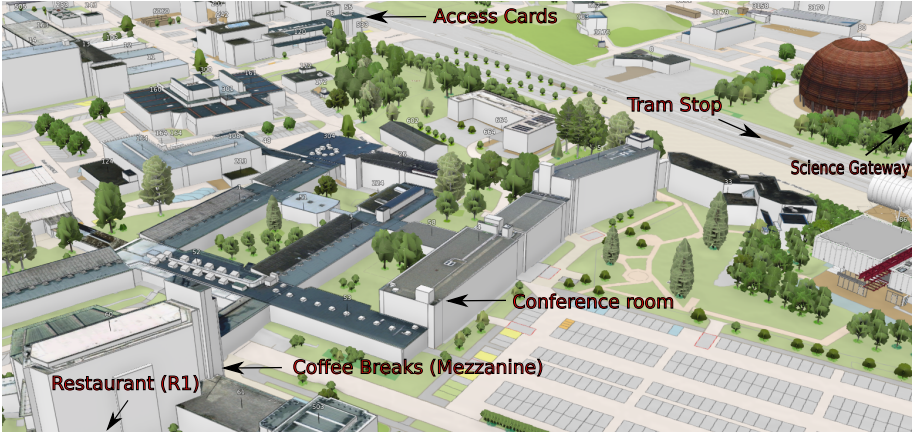
Additional Programme

- Poster session (→)
- Explore “Science Gateway”
- Guided tour

Nourishment

- (←) Reception (tonight **6pm**)
- Coffee breaks
- School dinner (Thursday)

Getting around CERN



Let's get started!