

Session Program

8–12 Sept 2025

Analytic structure of QCD and Yang-Lee edge singularity

Lattice

ECT*, Aula Renzo Leonardi
Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

Monday 8 September

10:30

Lattice

Session | Location: ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento) | Convener: Vladimir Skokov

10:30–11:30

Locating the QCD critical endpoint from Lee-Yang edge singularities using multi-point Padé approximations

Speaker

Kevin Zambello

11:30–12:30

Machine Learning Lee-Yang Zeros

Speaker

Jishnu Goswami

12:30

14:00

Lattice

Session | Location: ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento) | Convener: Heng-Tong Ding

14:00–15:00

Thermodynamics of the hadronic phase and the phase diagram.

Speaker

Szabolcs Borsanyi

15:00–16:00

Lee-Yang zeros and critical endpoint predictions from high-statistics Wuppertal-Budapest data

Speaker

Alexander Adam

16:00

16:30

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16:30–17:30

Mapping a critical point on the pion condensate line from unbiased exponentially resumed estimates of Lee-Yang zeros in finite isospin densities

Speaker

Sabarnya Mitra

17:30

Tuesday 9 September

09:00

Lattice

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09:00–10:00 Searching for the QCD Critical Endpoint at Low Temperature with Lattice QCD

Speaker

Heng-Tong Ding

10:00

10:30

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10:30–11:30

Yang-Lee zeros from the quark number density and the analytic structure of the universal scaling function

Speaker

Christian Schmidt

11:30–12:30 Finite-size scaling of Lee-Yang zeros in heavy-quark QCD

Speaker

Masakiyo Kitazawa

12:30

14:00

Lattice

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14:00–15:00 Lee–Yang-Zero Ratio Method and Its Application to the QCD Phase Diagram

Speaker

Tatsuya Wada

15:00

Thursday 11 September

14:00

Lattice

Session | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento) | **Convener:** Masakiyo Kitazawa

14:00–15:00

Finite density QCD as an inverse problem: analytic continuation, Lee-Yang zeros and all that

Speaker

Francesco Di Renzo

15:00