

New Trends in Thermal Phases of QCD (PBP 2.5)

May 7 – 11, 2026

Pan-European University, Ružinov Campus, Bratislava, Slovakia

Program

May 7, Thursday 19:30 Initial get-together

May 8, Friday

- 08:30 – 09:35 Roman Lietava *Heavy ion physics: experimental overview*
- 09:35 – 10:40 Ivan Horváth *The IR phase: firm, loose and open ends*
- 10:40 – 11:10 Coffee Break
- 11:10 – 12:15 Ivan Soler-Calero *Finite-temperature behaviour of Dirac eigenspectrum in lattice QCD: Towards UV dimensions of eigenmodes in the IR phase*
- 12:15 – 14:15 Lunch
- 14:15 – 15:20 Tamás Kovács *The far infrared mobility edge of the QCD Dirac spectrum*
- 15:20 – 15:50 Coffee Break
- 15:50 – 16:55 Matteo Giordano *Constraints on the Dirac spectrum and the fate of $U(1)_A$ in the chirally symmetric phase of QCD*
- 16:55 – 18:00 Szabolcs Borsányi *The finite baryon density frontier in lattice QCD*

May 9, Saturday

- 08:30 – 09:35 Lorenz Von Smekal *Quark numbers and percolation of electric fluxes in QCD*
- 09:35 – 10:40 Robin Kehr *QCD Anderson transition with overlap valence quarks and influence of external magnetic fields*
- 10:40 – 11:10 Coffee Break
- 11:10 – 12:15 Owe Philipsen *The QCD chiral transition and the dynamics of (would-be) Goldstone bosons*
- 12:15 – 14:15 Lunch
- 14:15 – 15:20 Andrei Kotov *Finite temperature QCD with chiral (overlap) fermions*
- 15:20 – 15:50 Coffee Break
- 15:50 – 16:55 Ravi Shanker *Effects of $U_A(1)$ and disorder in the Dirac spectrum of finite temperature QCD [online]*
- 16:55 – 18:00 Open discussion

May 10, Sunday 9:00 – 11:30 Open discussion [interested parties]