



# 19th International Conference on QCD in Extreme Conditions (XQCD 2023)

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Type: **Invited Talk**

## Recent progress in lattice QCD at non-zero temperature and density

*Friday, July 28, 2023 9:00 AM (45 minutes)*

I will review the progress in lattice QCD at non-zero temperature and density, including the calculations of the equation of state at non-zero baryon density, the nature of the chiral transition as function of the quark mass and quantities related to heavy flavor probes of hot matter. The latter includes, the lattice calculation of the heavy quark diffusion constant, heavy quark potential and quarkonium properties at high temperatures.

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**Session Classification:** Invited Speaker Session