LMU LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

Fakultät für Mathematik, Informatik und Statistik
Mathematisches Institut

Markus Holzmann
(CNRS Grenoble)

"Ground state phase diagram of jellium: what do we think we know?"

Wednesday, June 28, 2023, 4.15 pm

LMU, Theresienstr. 39, B 349

Zoom:
https://lmu-munich.zoom.us/j/61344651407?pwd=WktLY0dwUGtzWkQrR1U5b3Y4Q3JvQT09
ID: 613 4465 1407
Code: 919594

Abstract: The homogeneous electron gas (jellium) where electrons interact with each other and with a positive background charge is one of the simplest model system in condensed matter physics. Still, the precise determination of the zero temperature phase diagram remains challenging. In the talk I will review some recent progress from a computational perspective concerning the ground state phase diagram and Fermi Liquid properties.