



## Mathematics and CS Seminar

# Overcrowding Estimates for the Coulomb Gas

**Eric Thoma**

CIMS, NYU

Host: Laszlo Erdős

The Coulomb gas is a model of statistical physics appearing in a wide variety of contexts, from approximation theory to condensed matter physics. This talk will address several recent results, including optimal Wegner estimates, the size of the minimal inter-particle distance, and incompressibility on large microscopic scales, which all share one unifying and intuitive idea. We will also discuss an application to the fractional quantum Hall effect.

**Thursday, February 2, 2023 05:15pm - 06:15pm**

Mondi 2, I01.01.008, Central Building



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station. Please find a schedule of the ISTA Shuttle on our webpage: <https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.