

THE THERMODYNAMIC LIMIT OF QUANTUM COULOMB SYSTEMS.

MATHIEU LEWIN

CNRS and University of Cergy-Pontoise, France

I will review the methods for proving the existence of a thermodynamic limit for quantum systems composed of electrons and nuclei, like ordinary matter. I will also present a new approach (joint work with Jan Philip Solovej and Christian Hainzl) which provides a general setting for the study of many different quantum systems.