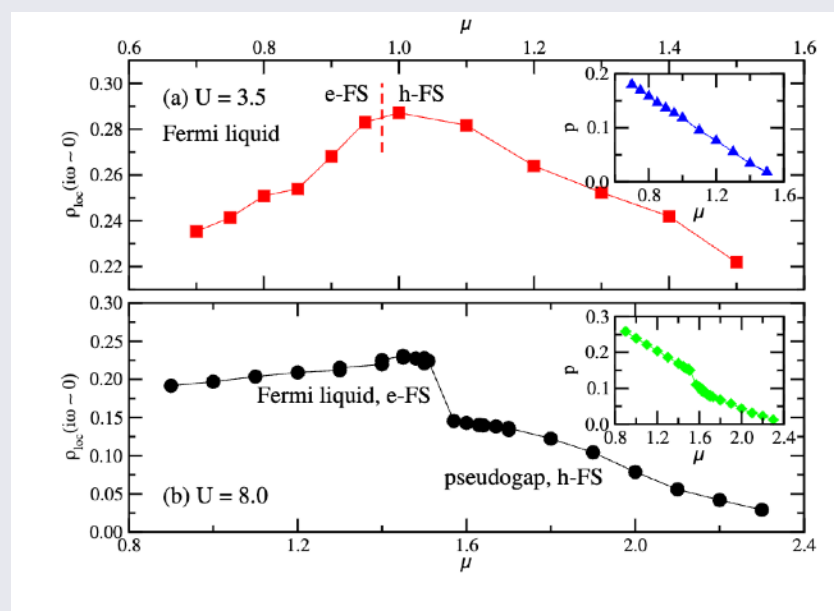




🕒 11:00am - 12:00am

📍 Salle 1180, building E2 (Salle des séminaire - EMA site)

Nature of the pseudogap to normal metal transition in strongly correlated systems



My works mainly address systems in which the electronic interaction is strong, giving rise to emergent properties. In my talk, I will discuss theoretical results we obtained in the context of high-temperature superconductors, as copper oxides. For large interactions, as we dope the system, it goes from a pseudogap phase (where there is loss of spectral weight in regions of the momentum space) to a conventional Fermi metal, concomitantly with a change in the Fermi surface from hole- to electron-like [Phys. Rev. Lett. 120, 067002 (2018)]. Close to this transition, we observed that the density-of-states at the Fermi level and the B1g nematic susceptibility extracted from Raman response data show an asymmetric, discontinuous evolution as a function of doping [Braz. J. Phys. 56, 48 (2026)].