

**Condensed Matter Theory Center Seminar**  
**Tuesday, October 7 at 11:00 AM**  
**2205 Physics Building**

**Speaker: Joaquin Drut (UNC, Assistant Professor and Melchor Fellow)**

**Title: Towards the entanglement of strongly coupled fermions via lattice Monte Carlo**

Abstract:

The calculation of the entanglement properties of strongly coupled many-body systems, in particular Renyi and von Neumann entropies, continues to be an active research area with many open questions. In this talk, I will outline the challenges and describe some of the advances, by my group and others, towards the characterization of entanglement in non-relativistic many-fermion systems using novel lattice Monte Carlo strategies.

**Host: Bitan Roy**

<http://www.physics.umd.edu/cmtc/seminars.html>

-----