

# LNGS SEMINAR SERIES

**Luca Lepori**

*Université de Strasbourg*

---

## **Simulation of two-flavors symmetry-locking phases in ultracold fermionic mixtures**

---

I describe a realistic ultra-cold fermionic set-up hosting a superfluid phase with symmetry obtained by locking independent invariance groups of the normal state.

In this phase non-Abelian fractional vortices with semi-integer flux and gapless non-Abelian Goldstone modes localized on them appear.

---

**FEBRUARY 17, 2015 – 2:30 PM**  
**LNGS - "B. ROSSI" ROOM**