



## Café com Física



03 de abril de 2024  
10h30  
Sala F-147

**Attilio Cucchieri**  
Instituto de Física de São Carlos  
Universidade de São Paulo

### Exploring the frontier of Lattice Gauge Theory: A journey into fundamental physics

Lattice Gauge Theory (LGT) stands as a rigorous mathematical framework in modern theoretical physics, providing a unique perspective on our understanding of the fundamental forces governing the universe, particularly the strong force described by Quantum Chromodynamics (QCD). This seminar aims to delve into the captivating realm of LGT, offering a comprehensive exploration of its theoretical framework and computational methodologies, allowing attendees to gain insight into the lattice formulation of QCD, its underlying principles, and its application in simulating complex phenomena that are otherwise intractable through traditional analytical approaches. Furthermore, rather than being constrained by traditional methodologies, we will embrace curiosity and creativity to push the boundaries of our understanding. Whether you're a seasoned researcher or a curious enthusiast, all are invited to immerse themselves in this exploration of the captivating landscapes of LGT.

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