

Talk 4 - Srijit Paul (University of Maryland, USA): The Anatomy of a Lattice Measurement

Tuesday 28 October 2025 16:00 (1h 30m)

We discuss how one goes from gauge configurations generated from Monte Carlo towards making a measurement to compute a physical observable. We elaborate on each step starting from relevant operators, propagator computations which are then contracted to obtain the final n-point correlation function. At every step, we tackle computational and analytical challenges using novel methods and techniques developed by the lattice community. As an example measurement, we discuss in particular proton and wilson loops, and finally a reliable extraction of a finite volume spectrum relevant for hadron spectroscopy.