



Contribution ID: 486

Type: **Talk**

## **Determining entanglement measures in $SU(N)$ lattice gauge theory for $N > 4$ : difficulties and solutions**

*Monday, 29 July 2024 15:35 (20 minutes)*

Despite recent progress, the accurate determination of entanglement measures in  $SU(N)$  lattice gauge theory remains a challenging task; in particular as the number of colors,  $N$ , is increased.

Considering entanglement entropy (EE) for slab-shaped entangling regions in (3+1)-dimensional pure  $SU(N)$  gauge theory, we discuss the difficulties that arise for  $N > 4$  and present our approaches to overcome them.

**Primary authors:** Dr JOKELA, Niko (University of Helsinki); Dr RINDLISBACHER, Tobias (University of Bern); RUMMUKAINEN, Kari (University of Helsinki); SALAMI, Ahmed (University of Helsinki)

**Presenter:** Dr RINDLISBACHER, Tobias (University of Bern)

**Session Classification:** Quantum computing and quantum information

**Track Classification:** Quantum Computing and Quantum Information