

IFMP Seminar

Date: Tuesday, July 20, 2021, at 14:50

BigBlueButton:

<https://selfservice.zih.tu-dresden.de/link.php?m=133132&p=501703a2> (TUD)

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Speaker: **Shravani Chillal**
Helmholtz-Zentrum Berlin

Title: **Magnetism of new three-dimensional frustrated lattices**

Abstract: $ACuTe_2O_6$ ($A = Pb, Sr, Ba$) compounds have recently attracted attention for hosting the quantum spin liquid state in the highly frustrated lattice known as the hyper-hyperkagome lattice. On the other hand, a strongly one-dimensional magnetism is revealed when the frustration is small. In this talk I'll give an overview of the different magnetic ground states appearing in this family of compounds, particularly, how the ratio of frustrated and non-frustrated interaction terms lead to different quantum magnetic behaviour and magnetic structures.