ID de Contribution: 25

## Higher gauge and discrete geometry

vendredi 20 janvier 2023 11:40 (50 minutes)

Crossed modules, or (strict) 2-groups, can be used to decorate faces and edges of a 2-complex. In this sense they provide a generalization of lattice gauge theory. I will discuss how these structures are relevant to 4d topological models, possibly to 4d quantum gravity and also provide new mathematical symmetry structures to explore.

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