

HARVARD UNIVERSITY
17 Oxford Street
Cambridge, MA 02138



Tuesday, October 27, 2020, at 10:00 (Boston)
14:00 (UK/Eire) 15:00 (C.Europe) 22:00 (China)
Mathematical Picture Language Seminar

Zoom at: <https://harvard.zoom.us/j/779283357?pwd=MitXVm1pYUIJVzZqT3lwV2pCT1ZUQT09>

“The quest of a finite, purely quantum group”
Sébastien Palcoux, Tsinghua University

Abstract: An important open problem is whether there exists a finite quantum group which cannot be *cooked up* from (classical) finite groups. A finite *purely* quantum group would be a finite dimensional Hopf C^* -algebra (Kac algebra) K such that the unitary integral fusion category $\text{Rep}(K)$ is not weakly group-theoretical, and admits no such fusion subcategory other than the trivial one. This talk will expose the first results in the quest of such an object, through joint works with Zhengwei Liu, Yunxiang Ren and Jinsong Wu, involving subfactor planar algebras, quantum Fourier analysis, and fusion categories.



