Quantum Topology / Hopf Algebra Seminar

Motivations For Homotopy Type Theory
Alexander Berenbeim (UIC)

Abstract: There are always ω-groupoids lurking about. In part 1 of a thrilling two parter, we are going to start from scratch and talk about (i) categorical deductive systems and (ii) the (typed) λ-calculus. Highlights include: the adjunction between the category of directed graphs and the category of Cartesian Closed Categories; the functional completeness of Kleisi Categories; what this all has to do with groupoids; the importance of induction principles; and an introduction to the basic type formers used in Homotopy Type Theory (including the illustrious identity types).

Thursday, March 16 at 2:00 PM in SEO 612