

Topology Seminar

Piotr Pstragowski

of Harvard University will be speaking on

Quivers and the Adams Spectral Sequence

on March 28 at 4:30 in
MIT Room 2-131

Associated to each homology theory we have an Adams spectral sequence computing stable homotopy classes of maps. Under flatness assumptions, the E_2 -term can be identified with cohomology of a certain Hopf algebroid, giving the spectral sequence its computational power. Unfortunately, this identification fails in many important examples, such as integral homology or connective Morava K -theory, making these spectral sequences mysterious and hard to calculate with. In this talk, I will describe a novel method of identifying these E_2 -terms in terms of cohomology in representations of certain quivers. This is based on joint work with Burklund.