Title:
New methods for left exact localisations of topoi

Abstract:
This talk will be around the following question: given a map f in a topos E, how to describe the left exact localization forcing f to become an isomorphism? The classical answer is to generate an explicit (Grothendieck or Lawvere-Tierney) topology. But in the context of infinity-topoi, not every left exact localization is controlled by a topology. I will recall why and give a new explicit description of the left exact localisation generated by f. I will finish by sketching an application to Goodwillie calculus. This is part of a joint work with G. Biedermann, E. Finster & A. Joyal.