1107-18-208 Yin Tian\* (ytian@scgp.stonybrook.edu), Simons Center for Geometry and Physics, Stonybrook, NY 11794. A diagrammatic categorification of quantum sl(1,1) via contact topology.
The Alexander polynomial of knots can be recovered as Witten-Reshetikhin-Turaev invariant associated to quantum sl(1,1). Knot Floer homology categorifies the Alexander polynomial. In this talk, we present a diagrammatic categorification of quantum sl(1,1). Our construction is motivated from contact categories introduced by Ko Honda, which study 3-dimensional contact structures on thickened surfaces. (Received January 15, 2015)