## 1108-53-293 Caitlin Leverson\* (cleverso@math.duke.edu). Legendrian Knots, Augmentations, and Rulings.

A Legendrian knot in  $\mathbb{R}^3$  with the standard contact structure is a knot for which dz - ydx = 0. Given a Legendrian knot, one can associate the Chekanov- Eliashberg differential graded algebra (DGA) over  $\mathbb{Z}/2$ . Fuchs and Sabloff showed there is a correspondence between augmentations to  $\mathbb{Z}/2$  of the DGA and rulings of the knot diagram. Etnyre, Ng, and Sabloff showed that one can define a lift of the Chekanov-Eliashberg DGA over  $\mathbb{Z}/2$  to a DGA over  $\mathbb{Z}[t, t^{-1}]$ . This talk will give an extension of the relationship between rulings and augmentations to  $\mathbb{Z}/2$  for the DGA over  $\mathbb{Z}/2$ , to a relationship between rulings and augmentations to a field of the DGA over  $\mathbb{Z}[t, t^{-1}]$ . No knowledge of the Chekanov-Eliashberg DGA will be assumed. (Received January 16, 2015)