Meeting: 1004, Bowling Green, Kentucky, SS 4A, Special Session on Knot Theory and Its Applications

1004-57-185 **Elizabeth Denne** (`denne@math.harvard.edu`), Department of Mathematics, Harvard University, 1 Oxford St, Cambridge, MA 02138, and **Robert B Kusner*** (`kusner@math.umass.edu`), Department of Mathematics, University Massachusetts at Amherst, Amherst, MA 01003. *Distortion in S^3.* Preliminary report.

The distortion of a curve measures the maximum arc/chord ratio. In this talk we discuss explicit examples of distortion-critical knots in S^3 whose distortions are unbounded. (Received January 24, 2005)