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**David A. Jorgensen\***, Department of Mathematics, University of Texas at Arlington, Arlington, TX 76019. *Vanishing of Ext and Tor over certain local rings.*

In this talk we will survey recent research on vanishing of Ext and Tor for finite modules over certain local rings, from local complete intersections to local Gorenstein rings, and beyond. Motivation and Background for the topics will also be given, as well as a list of open problems. (Received August 29, 2005)