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Daniel J. Hernández, Luis Núñez-Betancourt, J. Felipe Pérez* (jperezvallejo@gsu.edu)
and **Emily E. Witt**. *Lyubeznik numbers, connectivity, and cohomological dimension in mixed characteristic.*

In this short talk we present an extension of the Second Vanishing Theorem for local cohomology modules over regular rings to the (unramified) mixed characteristic situation. We use this theorem, together with new results about Lyubeznik Numbers in mixed characteristic of cohomological complete intersection rings, to give results about the connectedness of the spectrum. (Received September 19, 2015)