1106-16-2021 **Roberto C Soto*** (roberto-soto@uiowa.edu). *Universal Deformation Rings and Semidihedral 2-groups.* Preliminary report.

Fix an integer $n \geq 3$, and let SD denote the semidihedral group of order 2^{n+1}. Suppose k is an algebraically closed field of characteristic 2, and V is an indecomposable kSD-module. If the stable endomorphism ring of V is isomorphic to k, then it follows from work of Bleher and Chinburg that V has a universal defomation ring $R(SD, V)$. This ring is characterized by the property that every lift of V over a complete local commutative Noetherian ring R with residue field k is, up to isomorphism, determined by a unique local ring homomorphism from $R(SD, V)$ to R. In this talk we introduce endo-trivial modules and discuss the connection between endo-trivial kSD-modules and those with stable endomorphism ring isomorphic to k. (Received September 15, 2014)