1067-14-789 Yusuf Mustopa\* (ymustopa@umich.edu), Department of Mathematics, 2074 East Hall, 530 Church Street, Ann Arbor, MI 48109-1043. *Ulrich bundles on del Pezzo surfaces*.

Ulrich bundles occur naturally in a variety of algebraic and algebro-geometric topics, including determinantal and Pfaffian descriptions of hypersurfaces, the computation of resultants, and the representation theory of generalized Clifford algebras. In this talk I will discuss the connection between the existence of rank r Ulrich bundles on a degree-d del Pezzo surface X and the geometry of curves of degree dr on X, and how it can be used to study the moduli of Ulrich bundles on X. This is joint work with Emre Coskun and Rajesh Kulkarni. (Received September 14, 2010)