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Emre Coskun, Rajesh S. Kulkarni and Yusuf Mustopa* (ymustopa@umich.edu). *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 . (Received January 14, 2011)