1038-14-227   **Marta Casanellas** and **Robin Hartshorne*** (`robin@math.berkeley.edu`), Department of
Mathematics, University of California, Berkeley, CA 94720-3840. *Ulrich bundles on cubic surfaces.*

Let X be a nonsingular cubic surface in P^3. We prove the existence, for every rank r at least 2, of stable Ulrich bundles of rank r on X. An Ulrich bundle is a vector bundle with no intermediate cohomology, whose associated graded module has the largest possible number, 3r, of generators. These bundles form an open subset of dimension $r^2 + 1$ of the moduli space of stable vector bundles on X. (Received February 10, 2008)