## 1126-14-34 Lei Song\* (lsong@ku.edu), 405 Snow Hall, 1460 Jayhawk Blvd., Lawrence, KS 66045. On the projective normality of cyclic coverings over a rational surface.

A conjecture of Mukai says that for any smooth projective complex surface X, and an ample line bundle A on X, the adjoint line bundle  $\omega_X \otimes A^k$  is normally generated for every integer  $k \ge 4$ . The conjecture is quite open for surfaces of general type and non-minimal surfaces. We verify the conjecture in the case that X is a branched cyclic covering over a rational surface S with the anticanonical linear system moves and A is the pullback of an ample line bundle on S. (Received December 12, 2016)