

RESOLUTIONS OF GENERAL CANONICAL CURVES ON RATIONAL NORMAL SCROLLS

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ABSTRACT. Let C be a general canonically embedded curve of genus g and let k be an integer such that the Brill-Noether number $\rho(g, k, 1)$ is non-negative. Such a curve admits a pencil of divisors of degree k which spans a rational normal scroll containing the curve. The aim of this talk is to determine the splitting type of the first syzygy bundle appearing in a minimal resolution of C on the scroll X . This is a joint work with Michael Hoff.