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Daniel Erman, Gregory G. Smith* (ggsmith@mast.queensu.ca) and **Christine Berkesch Zamaere**. *Splendid complexes on products of projective space*. Preliminary report.

Syzygies capture subtle geometric properties of a subscheme in projective space. However, when the ambient space is a product of projective spaces or a general smooth toric variety, minimal free resolutions over the Cox ring are too long and contain many geometrically superfluous summands. In this talk, we will construct some much shorter free complexes that better encode the intrinsic geometry. (Received September 21, 2015)