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Severi-Brauer varieties and moduli of vector bundles.

Severi-Brauer varieties are forms of projective space. Attached to a Severi-Brauer variety are two numbers its canonical dimension and its index. They are related by a conjectural formula of Colliot-Thelene, Karepenko and Merkurjev. It is known in certain instances. We give an application of the formula to moduli of vector bundles over a curve.