

## **Abstract 3-Rigidity and Bivariate Splines**

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We verify a conjecture made by Walter Whiteley in 1996 that the generic  $C_1^2$ -cofactor matroid is the unique maximal abstract 3-rigidity matroid and use this to obtain a good characterisation of the rank function of this matroid. This is joint work with Katie Clinch and Shin-Ichi Tanigawa.