Vector bundles and triality.

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The moduli space $SU_C(2)$ of rank 2 vector bundles on curve C is a beautiful geometric object which is closely related to the linear series of 2Θ on the Jacobian of C. I will describe a new moduli space (based on joint work with S. Ramanan) which has $SU_C(2)$ as its singular locus. Its objects are certain $\mathrm{Spin}(8)$ bundles, and one can view it as arising by passing from the quaternions to the octonions.