Geometry of exceptional Lie algebras à la Tits
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I will discuss an ongoing project (joint with H. Van Maldeghem) to give a uniform axiomatic description of the embeddings in projective space of the varieties corresponding with the geometries of exceptional Lie type over arbitrary fields.

In particular, I will provide a uniform geometric characterization of the Severi varieties over arbitrary fields, i.e. the quadric Veronese varieties in 5-dimensional projective spaces, the Segre varieties in 8-dimensional projective spaces, the line Grassmannians in 14-dimensional projective spaces, and the 26-dimensional exceptional varieties of type $E_6$. 