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Adrian Clinger* (clinghera@ums1.edu), Department of Mathematics, University of Missouri - St. Louis, One University Blvd., St. Louis, MO 63121. *K3 Surfaces of High Picard Rank*.

I will report on a classification of a certain class of K3 surfaces of Picard rank 16 or higher. In terms of periods, the moduli space of these objects is a quotient of a four-dimensional bounded symmetric domain of type IV. Explicit normal forms will be presented, as well as a discussion of modular forms associated with this family. (Received February 02, 2012)