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Emmanuel F Breuillard* (breuilla@math.u-psud.fr), Laboratoire de Mathematiques,
Universite Paris Sud, 91405 Orsay, France. *On the diameter of finite simple groups.*

I will discuss worst case upper bounds on the diameter of finite simple groups. In the special case when the rank of the groups are bounded, techniques from recent works of Pyber-Szabo, Breuillard-Green-Tao, Breuillard-Green-Guralnick-Tao and Breuillard-Gamburd can be applied to study this question. (Received September 15, 2010)