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Abbey Bourdon, Ozlem Ejder* (ejder@math.colostate.edu), **Yuan Liu, Frances Odumodu** and **Bianca Viray**. *Sporadic Points on Modular Curves*.

We call a closed point x on $X_1(n)$ sporadic if there are only finitely many closed points of degree at most $\deg(x)$; hence classifying sporadic points on $X_1(n)$ is closely related to determining the torsion subgroups of elliptic curves over a degree d field. When $d = 1$ or 2 , Mazur and Kamienny's work show that there are no sporadic points of degree d on $X_1(n)$. In this talk, I will focus on the sporadic points with rational j -invariants. This is joint with A. Bourdon, Y. Liu, F. Odumodu and B. Viray. (Received September 17, 2019)