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Joseph H. Silverman*, Mathematics Department, Brown University, Box 1917, Providence, RI 02912. *The Pentagram Map on Cubic Surfaces*. Preliminary report.

The classical pentagram map is a dynamical system on the space of pentagons, or more generally n -gons, in the projective plane \mathbb{P}^2 . We consider an analogous dynamical system on the set of n -gons lying on a cubic surface in \mathbb{P}^3 , for which we describe some elementary properties and pose some questions. (Received August 28, 2020)