

1154-11-2325 **Mckenzie West*** (westmr@uwec.edu), Mathematics, Hibbard Humanities Hall 508, 124 Garfield Avenue, Eau Claire, WI 54701. *Computing curves on surfaces*. Preliminary report.

The study of rational points on varieties is intrinsically linked to the geometry of the variety. In the case of surfaces, we wish to find the curves on the surface and their algebraic relationships. We will discuss the strategies and challenges to computing curves on surfaces using existing computational software, including a recent effort to implement a general cubic surface curve-finding algorithm in Sage. (Received September 17, 2019)