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**Arthur Baragar\*** ([baragar@unlv.nevada.edu](mailto:baragar@unlv.nevada.edu)), University of Nevada Las Vegas, 4505 Maryland Parkway, Box 4020, Las Vegas, NV 89154-4020. *Orbits of points on K3 surfaces*. Preliminary report.

The asymptotic behavior of the number of rational points with bounded height on a curve is an important characteristic of the curve. The asymptotic behavior of the number of points with bounded height in the orbit of a point under the action of the group of automorphisms on the curve — is identical. But on surfaces, the two quantities are different. In this talk, we investigate the latter quantity for  $K3$  surfaces. (Received March 11, 2008)