

1133-14-6

T. Shaska* (shaska@oakland.edu), Rochester, MI. *From hyperelliptic to superelliptic curves*. Preliminary report.

Hyperelliptic curves are the family of curves better understood among all curves of genus $g \geq 2$. In this talk, we will explore what aspects of the theory of hyperelliptic curves can be extended to superelliptic curves. We will consider both the viewpoint of algebraic geometry and number theory. In particular, we will focus on automorphisms, equations of curves over field of moduli , integral minimal models, etc. (Received February 22, 2017)