COLLOQUIUM UNIVERSITY OF PITTSBURGH FRIDAY, NOVEMBER 18, 2016

704 THACKERAY HALL

3:30 P.M.

SAM PAYNE

DEPARTMENT OF MATHEMATICS YALE UNIVERSITY

TROPICAL GEOMETRY OF ALGEBRAIC CURVES

ABSTRACT: The piecewise linear objects appearing in tropical geometry are shadows, or skeletons, of nonarchimedean analytic spaces, in the sense of Berkovich, and often capture enough essential information about those spaces to resolve interesting questions about classical algebraic varieties. I will give an overview of tropical geometry as it relates to the study of algebraic curves, touching on applications to moduli spaces.

Refreshments served at 3:00 p.m. in the Math Dept. COMMON ROOM, Thackeray 705