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**Max D. Engelstein\***, Department of Mathematics, MIT, 77 Massachusetts Ave, Cambridge, MA 02139. *The Geometry of Parabolic NTA Domains.*

Introduced by Jerison and Kenig in the 1980s, non-tangentially accessible (NTA) domains are a natural setting in which to study the boundary behavior of harmonic functions. In the 1990s, Lewis and Murray defined parabolic NTA domains in order to consider similar questions for the heat equation. In this talk, we classify all parabolic NTA domains in  $\mathbb{R}^2$  and explain some of the consequences of this classification to parabolic potential theory and free boundary problems. (Received July 18, 2016)