

1104-57-115

**Maciej Borodzik, Matthew Hedden and Charles Livingston\***, livingst@indiana.edu.

*Cuspidal curves in complex projective space.* Preliminary report.

A homogeneous polynomial in three complex variables defines an algebraic curve  $C$  in complex projective space. Generically,  $C$  is a smooth surface. This talk will consider the case in which  $C$  has isolated singularities. Obstructions based on Heegaard Floer theory constrain the possible singularities that can occur in the case that  $C$  is topologically a sphere and lead to a partial classification result for curves of topological genus 1. (Received August 26, 2014)