1096-53-502 **Jeffrey Danciger** (jdanciger@math.utexas.edu), **Sara Maloni*** (sara_maloni@brown.edu) and **Jean-Marc Schlenker** (jean-marc.schlenker@uni.lu). *Ideal polyhedra in anti-de Sitter space.* Preliminary report.

In this talk we will consider ideal polyhedra in 3–dimensional anti-de Sitter space $\mathbb{A}d\mathbb{S}^3$. After a brief introduction to $\mathbb{A}d\mathbb{S}$–geometry, we will show that any hyperbolic metric on the sphere with n cusps, and a distinguished "equator", can be uniquely realized as the induced metric on a convex ideal polyhedron in the anti-de Sitter space $\mathbb{A}d\mathbb{S}^3$. Moreover we will characterize the possible dihedral angles of those ideal polyhedra in $\mathbb{A}d\mathbb{S}^3$, and show that each ideal polyhedron is characterized by its angles. (This is a joint work with J. Danciger and J-M Schlenker.) (Received September 05, 2013)