1000-53-161 **Alice Chang** (chang@math.princeton.edu), Department of Mathematics, Princeton University, Princeton, NJ 08544, **Jie Qing*** (qing@cats.ucsc.edu), Department of Mathematics, University of California, Santa Cruz, Santa Cruz, CA 95064, and **Paul Yang** (yang@math.princeton.edu), Department of Mathematics, Princeton University, Princeton, NJ 08544. *On the renormalized volume of conformally compact Einstein manifolds.* Preliminary report.

In the talk we will report some results on the study of conformally compact Einstein manifolds. Inspired by the Ads/CFT correspondence in physics literature, we studied some global invariants of conformally compact Einstein manifolds and showed how they carry some information on the topology of the underlined manifolds. (Received August 23, 2004)