

It is known that all solutions to three dimensional Einstein gravity with a negative cosmological constant are locally AdS<sub>3</sub> geometries. The set of all these solutions with the Brown-Henneaux boundary condition is given by the set of Banados metrics. We show that these geometries can be uniquely labeled and classified by their coadjoint orbits of Virasoro algebra. This will shed new light on the AdS/CFT correspondence as well as the geometry of Banados metrics.