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*The geometry of the bidisk*

The bidisk is the product of two copies of the hyperbolic plane, which we endow with the standard Riemannian metric. It is a rank two symmetric space of non-positive curvature. It has many interesting properties: for instance, its equidistant hypersurfaces fail to be totally geodesic. This renders the description of Dirichlet domains a little more challenging. We will describe how a discrete cyclic group of isometries may admit more than two faces. (Joint work with Todd Drumm and Rosemonde Lareau-Dusseault.)