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Ilesanmi Adeboye* (iadeboye@wesleyan.edu). *The Area of Projective Surfaces.*

A strictly convex real projective orbifold is a quotient $\mathcal{Q} = \Omega/\Gamma$, where Ω is an open strictly convex set in $\mathbb{R}P^n$ and Γ is a discrete subgroup of $\text{PGL}(n+1, \mathbb{R})$ which preserves Ω . These objects include all hyperbolic manifolds but, in general, are neither Riemannian nor homogeneous. They do possess a natural Finsler metric called the Hilbert metric. The Hilbert metric determines a Hausdorff measure that assigns a Hilbert volume to the orbifolds under consideration. In this talk, I will prove an explicit lower bound for the area of a projective 2-orbifold. This is joint work with Daryl Cooper. (Received August 29, 2013)