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Conservative Action of Kleinian Groups with Respect to the Patterson-Sullivan Measure

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Abstract. For a non-elementary Kleinian group G acting on an n -dimensional sphere, we consider a conformally invariant probability measure of the dimension at the critical exponent of the Poincaré series. When this diverges, such a measure is unique and it is called the Patterson-Sullivan measure. We prove that the action of any non-trivial normal subgroup Γ of G is conservative with respect to the Patterson-Sullivan measure for G .

Keywords. Kleinian group, critical exponent, divergence type, conical limit set, conformally invariant measure, conservative part, horospherical limit set.

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