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Section:

8. Analysis

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Properties of isometry-inducing maps of the unit disc.

We examine valence properties of self maps φ of the unit disc which induce isometries on non-Hilbertian Bergman or Hardy spaces. All isometries of these spaces are given by weighted composition operators $Tf = \omega \cdot f \circ \varphi$, and we isolate properties of the inducing map φ. We examine the relationship between φ and the multiplier ω in the Bergman space setting. This talk is based on joint work with James E. Jamison.