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Harmonic Conjugates in Weighted Bergman Spaces of Quaternion-Valued Functions

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Abstract. In this paper we study the harmonic conjugation problem in weighted Bergman spaces of quaternion-valued functions on the unit ball. For a scalar-valued harmonic function belonging to a Bergman space, harmonic conjugates in the same Bergman space are found.

Keywords. Quaternion, monogenic function, harmonic Bergman spaces.

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