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Harvey Blau and **Angela Antonou*** (aantonou@stfrancis.edu). *Two-dimensional representations of reality-based algebras*. Preliminary report.

We study the extent to which a two-dimensional irreducible representation of a reality-based algebra is determined, up to equivalence, by the values and multiplicities of the characters afforded by the other irreducible representations. Methods of Herman, Muzychuk, and Xu are among those applied. (Received August 15, 2016)