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**Krzysztof Jarosz\*** (kjarosz@siue.edu), Department of Mathematics & Statistics, Southern Illinois University, Edwardsville, IL 62026. *Real, Complex, and Quaternion Uniform Algebras.*

A uniform algebra  $A$  is a Banach algebra such that  $\|f^2\| = \|f\|^2$ , for all  $f \in A$ . We show that any such algebra is isometrically isomorphic with a subalgebra of  $C_{\mathbb{H}}(X)$  - the algebra of all continuous functions defined on a compact set  $X$  and taking values in the field  $\mathbb{H}$  of quaternions. Furthermore any such algebra is a sum of a commutative complex uniform algebra and  $C_{\mathbb{H}}(X_1)$  for certain subset  $X_1$  of  $X$ . (Received September 14, 2010)