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Bangteng Xu* (bangteng.xu@eku.edu), Department of Mathematics and Statistics, Eastern Kentucky University, Richmond, KY 40474, and **Kezheng Kuo**, Department of Mathematics and Statistics, Hubei Normal University, Huangshi, Hubei 435002, Peoples Rep of China. *On Semisimple Varietal Terwilliger Algebras Whose Non-primary Ideals Are 1-dimensional.*

A varietal Terwilliger algebra is an abstraction of the Terwilliger algebra of a commutative association scheme. There exists a varietal Terwilliger algebra defined by any given standard C -algebra, and a generalized Terwilliger algebra defined by Egge is also a varietal Terwilliger algebra. Characterizations of a semisimple varietal Terwilliger algebra with 1-dimensional non-primary ideals will be discussed, and applications to association schemes will be presented. (Received January 17, 2013)