Christopher Michael Schwanke* (cmschwan@olemiss.edu), University of Mississippi, Department of Mathematics, University, MS 38677, and Gerard Buskes. Stolarsky Means and Fremlin Tensor Products.

Using functional calculus, we introduce completions of Archimedean vector lattices with respect to continuous, real-valued functions on \( \mathbb{R}^n \) that are positively homogeneous. Examples include the widely-studied Stolarsky and Gini means. By completing the Fremlin tensor product of real Archimedean vector lattices with respect to a particular Stolarsky mean, we prove the existence of a Fremlin tensor product for complex Archimedean vector lattices. (Received September 15, 2014)