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**Benjamin Hayes\*** ([brh5c@virginia.edu](mailto:brh5c@virginia.edu)), 141 Cabell Drive, Kerchof Hall, P.O. Box 400137, Charlottesville, VA 22904. *1-Bounded Entropy with applications to structure of von Neumann algebras.*

I will discuss the 1-bounded entropy, which is a modification of free entropy dimension that ends up being an actual invariant. I will discuss how this invariant allows one to prove some structural/indecomposability results for certain von Neumann algebras, as well as shed some light on well known conjectures in the field. (Received February 12, 2018)