1125-47-989   **Ben Hayes*** (`benjamin.r.hayes@vanderbilt.edu`), Department of Mathematics, Vanderbilt University, 1326 Stevenson Center Ln, Nashville, TN 37240. *1-bounded entropy with applications to von Neuman algebras.*

I will discuss 1-bounded entropy, which is a invariant of a tracial von Neumann algebra which measures "how many matricial approximations" it has. I will present discuss applications, including new nonisomorphism results in II_1-factors, as well as applications to regularity problems and type III algebras. (Received September 13, 2016)