

1096-03-1849      **Jose Iovino\*** (iovino@math.utsa.edu). *Metastability of sequences and model theory.*

The concept of metastability of sequences, a variant of the notion of convergence, was introduced by T. Tao in his solution to the problem of norm convergence of multiple ergodic averages for commuting transformations (Ergodic Theory Dynam. Systems 28, 2008). Walsh's ergodic theorem (Ann. of Math. 175, 2012) relies on metastability as well, in order to prove convergence. I will discuss how metastability is related to familiar constructions in classical model theory. This is joint work with Jeremy Avigad. (Received September 16, 2013)