

1154-37-2341 **Joshua Frisch*** (jfrisch@caltech.edu). *Characteristic Measures of Symbolic Dynamical Systems.*

One of the most important techniques in topological dynamics is the reduction of questions about topological dynamical systems to those about measurable dynamical systems. One of the principle techniques used to transfer knowledge from the measurable category to the topological category is finding invariant measures, those measures which are preserved under the transformation. In this talk I will discuss measures which are invariant not only to the transformation, but to the entire automorphism group of the dynamical system, called characteristic measures. In particular I will give a myriad of open questions about the existence of characteristic measures and one theorem. For 0 entropy symbolic dynamical systems, characteristic measures always exist. This is joint work with Omer Tamuz. (Received September 17, 2019)