Allen Herman* (allen.herman@uregina.ca), Department of Mathematics and Statistics, University of Regina, 3737 Wascana Parkway, Regina, SK S0G0E0, Canada. On the Terwilliger algebras of regular tournaments. Preliminary report.

Recent work of Muzychuk and Xu has shown the Terwilliger algebra of the wreath product of two coherent configurations can be determined from the Terwilliger algebras of the two constituents. This motivates us to study Terwilliger algebras of the most basic coherent configurations. Although Terwilliger algebras of symmetric association schemes arising from distance regular graphs have been fairly well studied, less is known about Terwilliger algebras of nonsymmetric association schemes, the first interesting case being that of regular tournaments. We will report on what we have learned about the dimensions and irreducible representations of these Terwilliger algebras, and the extent to which they distinguish regular tournaments up to combinatorial isomorphism. This is a preliminary report on joint work with Mehwish Muhammad Anwar. (Received July 11, 2019)