

1106-00-2127

William Wheeless* (wbweele@ncsu.edu). *Additional Symmetries of the Extended Toda Hierarchy*. Preliminary report.

We briefly discuss the motivation for studying the Toda hierarchy and its extension. We then give a short introduction to the Virasoro algebra. Finally, the additional symmetries of the extended Toda hierarchy are given in Lax pair formalism, and the connection between these additional symmetries and the Virasoro algebra are shown. (Received September 15, 2014)