

1082-83-174

James A. Isenberg* (isenberg@uoregon.edu). *The Conformal Method and Solutions of the Einstein Constraint Equations: A Status Report.*

The Conformal Method (as well as the closely related Conformal Thin Sandwich Method) has proven to be a very useful procedure both for constructing and for parametrizing solutions of the Einstein initial data constraint equations, for initial data sets with constant mean curvature (CMC). Is this true for non CMC data sets as well? After reviewing the CMC results, we discuss what we know and don't know about non CMC initial data sets and the effectiveness of the Conformal Method in handling them. (Received July 06, 2012)