

Abstract Submitted
for the APR08 Meeting of
The American Physical Society

Physical characteristics of numerical apparent horizons IVAN BOOTH, Memorial University of Newfoundland, STEPHEN FAIRHURST, Cardiff University — We present analytical results which enable the physical characterization of numerical apparent horizons. In particular, we introduce quantities which invariantly characterize the rate at which an apparent horizon is evolving and how close it is to either equilibrium or extremality. The definition of extremality does not require the apparent horizon to be either stationary or rotationally symmetric but does reduce to the standard notion for Kerr.

Ivan Booth
Memorial University of Newfoundland

Date submitted: 11 Jan 2008

Electronic form version 1.4