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Fernando Schwartz* (fernando@math.utk.edu), Mathematics Department, University of Tennessee, 227 Ayres Hall, 1403 Circle Drive, Knoxville, TN 37996. *On how black holes contribute to the mass of the universe.*

I will describe the Penrose inequality of general relativity and sketch a proof of a version of it which partially solves a conjecture by Bray and Iga. (Received January 14, 2011)