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Pei-Ken Hung* (pkhung@math.columbia.edu), Rm 408, MC 4447 2990 Broadway, New York, NY 10027. *The Gibbons-Penrose inequality.*

The Gibbons-Penrose inequality, like the Penrose inequality, is a conjecture proposed by Penrose as a test of the weak cosmic censorship. It's also a spacetime generalization of the Minkowski inequality. I will discuss the heuristic argument of Penrose and some known results in this direction. (Received December 15, 2016)