1060-83-141   **Dan A Lee*** (`dlee2@qc.cuny.edu`), 237 Kiely Hall, 65-30 Kissena Blvd, Flushing, NY 11367.
Static uniqueness and the Penrose inequality. Preliminary report.

We consider the problem of classifying static spacetimes with black hole boundaries. We prove an unusual case of the Penrose inequality which implies a static uniqueness theorem in the negative curvature setting. This is a report on joint work-in-progress with A. Neves. (Received March 28, 2010)