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*Volume entropy and measure of maximal entropy of hyperbolic buildings.* Preliminary report.

In contrast to symmetric spaces, we show that for certain hyperbolic buildings with symmetric metric on each apartment, the Liouville measure is not equal to the Bowen-Margulis measure i.e. the measure of maximal measure-theoretic entropy. As a consequence, we obtain a strict lower bound on the volume entropy for such buildings in terms of "weighted" perimeter. (Received September 16, 2008)