

1047-53-299

**Chris Connell\*** ([connell@indiana.edu](mailto:connell@indiana.edu)), Bloomington, IN , and **Zhenyu Li**. *Leafwise entropy rigidity for foliations.*

We prove an entropy rigidity statement for general foliated maps  $f : M \rightarrow N$  between compact foliated spaces in the sense of Besson, Courtois and Gallot. In particular, we establish an iso-entropic inequality with respect to a transverse quasi-invariant measure which is optimal when almost every leaf of  $M$  is locally symmetric. We give some applications of this as well, and indicate how it relates to the entropy rigidity conjecture for higher rank spaces. This is joint work with Zhenyu Li. (Received January 31, 2009)