1131-37-227   **Tamara Kucherenko***, (tkucherenko@ccny.cuny.edu), The City College of New York, and **Daniel J. Thompson**, Ohio State University. *Measures of maximal entropy for suspension flows over the full shift.*

We consider suspension flows with continuous roof function over the full shift Σ on a finite alphabet. For any non-trivial subshift of finite type $Y \subset \Sigma$, we show there exists a roof function such that the measure(s) of maximal entropy for the suspension flow over Σ are exactly the lifts of the measure(s) of maximal entropy for Y. Here, non-trivial means that Y contains infinitely many points. In the case when Y is transitive, this gives a unique measure of maximal entropy for the flow which is not fully supported. If Y has more than one transitive component, all with the same entropy, this gives explicit examples of suspension flows over the full shift with multiple measures of maximal entropy. This contrasts with the case of a Hölder continuous roof function where it is well known the measure of maximal entropy is unique and fully supported. (Received July 15, 2017)

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