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Jeffrey F. Brock* (Jeff_Brock@brown.edu), Department of Mathematics, Brown University, Box 1917, Providence, RI 02912. *Recurrence and unique ergodicity for Weil-Petersson geodesics and their ending laminations.*

We investigate the role of the ending lamination associated to a Weil-Petersson geodesic ray in determining the trajectory of the ray. A Theorem of H. Masur guarantees that a Teichmüller geodesic that recurs to the thick part of Teichmüller space has associated vertical foliation that is uniquely ergodic – in contrast, we exhibit recurrent Weil-Petersson geodesic rays with ending laminations that are not uniquely ergodic. In this talk I will explore other relations, both well-understood and conjectural, between properties of the ending lamination and properties of the ray. (Received September 22, 2011)