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**Martin J Schmoll\*** ([schmoll@clemsun.edu](mailto:schmoll@clemsun.edu)), Martin Schmoll, Martin Hall O-229, Clemson University, Clemson, SC 29634. *Loci in strata of meromorphic differentials with special Lyapunov spectrum*. Preliminary report.

We explain and apply some ideas from a recent paper of Grivaux and Hubert, who construct closed  $GL(2, \mathbb{R})$  invariant loci in strata of meromorphic differentials with fully degenerate Lyapunov spectrum. We apply those ideas to dynamics on infinite covers and explain possible geometric extension so Grivaux - Hubert. This is work in progress, for that reason we do not make more precise statements in this abstract. (Received February 03, 2015)