

1086-37-2427      **Russell Waller\*** ([rwaller@math.fsu.edu](mailto:rwaller@math.fsu.edu)). *Pseudo-Anosov flows on graph manifolds with periodic pieces*. Preliminary report.

In their recent work (arXiv:1007.0578v2), T. Barbot and S. Fenley demonstrate that the structure of pseudo-Anosov flows on Seifert pieces of graph manifolds where all pieces of the torus decomposition are periodic is actually quite rigid, and can be fully described using surfaces called *fat graphs*. We characterize these fat graphs with the extra restrictions needed to guarantee that the flows on the corresponding 3-manifolds are pseudo-Anosov, and in doing so provide many explicit new examples of pseudo-Anosov flows on graph manifolds where all pieces of the torus decomposition are periodic. (Received September 25, 2012)