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**R. Komendarczyk\*** ([rako@math.upenn.edu](mailto:rako@math.upenn.edu)), Dept. of Math, Univ. of Penn, David Rittenhouse Lab., 209 S. 33rd St., Philadelphia, PA 19104. *The Milnor's  $\mu_{123}$  invariant for the asymptotic Schwartzman's cycle*. Preliminary report.

We construct an isotopy invariant for the Schwartzman asymptotic cycle, which is a generalization of the classical Milnor  $\mu_{123}$  invariant for 3-component links. This approach also produces an invariant for volume preserving vector fields, provided that the domain of definition of the invariant is a set of nonzero measure in the domain of the flow. (Received August 17, 2007)