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Codimension one Anosov flows and suspensions.

Dynamical systems, Valparaiso 1986, 59–72, Lecture Notes in Math., 1331, Springer, Berlin, 1988.

Codimension one Anosov flows are known to admit global cross sections, provided the fundamental group of the manifold is solvable [J. Plante, *J. London Math. Soc.* (2) **23** (1981) no. 2, 359–362; [MR0609116 \(82g:58069\)](#)]. In this paper the author conjectures that the hypothesis on the fundamental group is unnecessary if the dimension of the manifold is bigger than 3. He shows that a C^2 codimension one Anosov flow f_t on a closed n -manifold ($n \geq 4$) admits a global cross section, provided either of the following conditions are satisfied: (1) f_t is volume-preserving and the stable foliation is of class C^2 , (2) the hyperplane field $E^{ss} \oplus E^{uu}$ is of class C^1 .

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