

**Rigidity for conjugacies of Anosov flows in dimension 3.**

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Abstract: In this ongoing project with A. Gogolev and M. Leguil we show that if two transitive Anosov flows in dimension are conjugated (i.e. time preserving orbit equivalence) and the Jacobian of return times match then the conjugacy is actually smooth. This allows us to derive some corollaries about smoothing systems. In this talk I plan to discuss these results and related problems.