Non-algebraic Anosov flows in higher dimensions

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Recall that an Anosov flow is a flow on a closed manifold that preserves invariant expanding and contracting subbundles of the tangent bundle. They exhibit interesting rigidity and flexibility phenomena. In this talk, we recall the classification of algebraic Anosov flows by Tomter, which also motivates our construction of non-algebraic Anosov flows in higher dimensions. Then we discuss an obstruction to constructing fibrewise Anosov flows. This is partially ongoing joint work with Neige Paulet.