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*Anosov flows in dimension 3*

Anosov flows are one of the archetypal examples of uniformly hyperbolic systems. In 3 dimensions, Anosov flows have proven to be both very abundant and intricately linked to the topology of the manifold supporting them. (In higher dimensions, almost nothing is known). In this series of lecture, I will introduce the basic tools used to study the topology of Anosov flows, and present some of the recent developments regarding both the construction of examples and their finer topological/geometrical properties. Anosov flows are one of the archetypal examples of uniformly hyperbolic systems. In 3 dimensions, Anosov flows have proven to be both very abundant and intricately linked to the topology of the manifold supporting them. (In higher dimensions, almost nothing is known). In this series of lecture, I will introduce the basic tools used to study the topology of Anosov flows, and present some of the recent developments regarding both the construction of examples and their finer topological/geometrical properties.