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Broken/open book decompositions and generic dynamics of Reeb vector fields

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Every non degenerate Reeb vector field on a closed 3-manifold is carried by a broken book decomposition. A broken book provides a system of transverses surfaces to the flow that allow to code the dynamics, allowing to prove several generic properties of Reeb vector fields. After explaining these results, I will present recent work on the existence of homoclinic orbits for Reeb vector fields.

This is work in collaboration with V. Colin, P. Dehornoy and U. Hryniewicz.

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