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Around the fine curve graph of the torus

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Lan, Margalit, Pham, Verbene and Yao showed in 2021 that the group of automorphisms of the fine curve graph of a surface of genus at least 2 identifies with the group of homeomorphisms of the surface. With Maxime Wolff, we generalise this result to any surface, and describe the smooth version. The torus case is of special interest since recent work by Bowden, Hansel, Militon, Man, and Webb (generalised by Guihéneuf and Militon) suggests the possibility of a rich dictionary between the fine graph and the dynamical properties of torus homeomorphisms, especially the famous rotation set.

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