

In this talk, I will present families of interval exchange transformations with Pisot spectrum since the Kontsevich–Zorich cocycle splits into two blocks. The behavior is different from the generic one, one can expect that the dynamics is elliptic.

In two cases, we prove that a typical example is conjugate to a rotation of the two dimensional torus.

The first family of examples is the Arnoux–Rauzy family. The second one is the subject of a work in progress with Mercat and Paris–Romaskevich.