

1103-05-36

**Dominique Perrin\*** ([dominique.perrin@esiee.fr](mailto:dominique.perrin@esiee.fr)). *Natural codings of linear involutions.*

We present results on the properties of the minimal systems obtained by the natural codings of linear involutions. These results generalize those obtained for interval exchange transformations. As for several other minimal systems, a strong connection between maximal bifix codes and subgroups of finite index of free groups is shown. Two proofs are given for the results, one by direct combinatorics on words and the other using geometric methods (joint work with Valérie Berthé, Vincent Delecroix, Francesco Dolce, Giuseppina Rindone and Christophe Reutenauer). (Received August 02, 2014)