Journal de Théorie des Nombres
de Bordeaux **11** (1999), 201–210

Substitution invariant Sturmian bisequences

par Bruno PARVAIX

Abstract. We prove that a Sturmian bisequence, with slope α and intercept ρ, is fixed by some non-trivial substitution if and only if α is a Sturm number and ρ belongs to $\mathbb{Q}(\alpha)$. We also detail a complementary system of integers connected with Beatty bisequences.

Bruno Parvaix
LACO, Faculté des Sciences,
123 avenue Albert Thomas
F-87060 LIMOGES
E-mail : parvaix@alpha1.unilim.fr