



## Programma Short-Term Mobility

Il sottoscritto Prof. Marco PEDICINI nato a ROMA il 11/10/1966

DICHIARA

che nell'ambito del progetto di ricerca finanziato dal programma STM del CNR sono stati ottenuti i seguenti risultati scientifici:

We carried out extensive numerical investigations in order to obtain conjectures analogous to results obtained for three-letter alphabets in the paper V. Komornik, A. C. Lai, M. Pedicini, Generalized golden ratios of ternary alphabets, appeared in the J. Eur. Math. Soc.

Several cases of these conjectures were proved to be correct providing the first values for critical constants in the three-letter alphabets. This direction of research is promising in order to determine the critical base  $q'$  such that in bases  $1 < q < q'$  only countably many numbers have unique expansions, while in bases  $q > q'$  uncountably many numbers have this property. This would extend a theorem of Glendinning and Sidorov who proved that the so-called Komornik-Loreti constant plays this role for two-letter alphabets.

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