



The students' personal school-routes as a variable for the study of the relation between mathematics education and school failure

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The wider social-economical-cultural environment in which a student is educated constitutes a main interpretative context for phenomena that are related with his education. In this poster, we study the students' personal school-routes as a variable for the study of the relation between mathematics education and school failure. By the term "student's personal school-route", we mean the potential necessary remove and installation of the child to another school area, when the educational conditions and opportunities of the student's native or family residence are restricted.

In this poster we propose to present the typology of these routes that result from our study in the case of the pupils that live in an island complex area in Greece, the Dodecanese. The Dodecanese Islands is a configuration of 15 islands in the South-East of Greece (the bigger island named Rhodes has about 100.000 inhabitants and the smallest named Arki has 3 inhabitants). This work is a part of a broader research project¹ that aims to study the relation between mathematics education and school failure in the case of the Dodecanese Islands area and to develop criteria for the selection of variables in order to propose reparative actions.

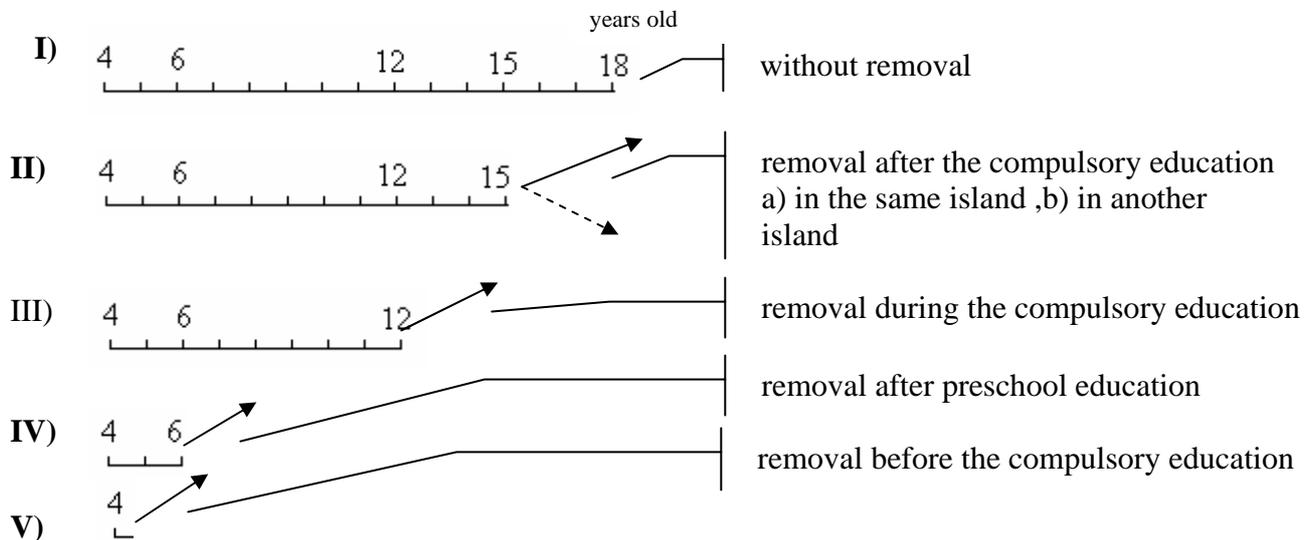
The research project is realized according to the following phases:

- registration of educational conditions in Dodecanese Islands (the educational institutions, the schools' management in each level of education, teachers' age and education, students' leakage, students' achievement in mathematics, students' personal school-routes),
- selection of students-targets as cases for study according to their personal school-routes,
- investigation of the students' development in mathematics education and the relation with school failure in each case.

¹ "The interaction between mathematics education and school failure in island areas: interpretation and confrontation in the case of Dodecanese Islands".(Pythagoras): This research program is co-financed by 3rd CSF of EEC.



The following schemes present the variety of the different types of school-routes that the students (4 to 18 years old) have to follow for their education in Dodecanese Islands :



Each route constitutes a particular case study for the investigation of the relation between mathematics education and school failure, because of the different opportunities for education that each route offers.