**Poster of ICME-12**

**Submitted by December 15, 2011**

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| **Title** | **DynaMAT - Dynamical and creative Mathematics using ICT** |
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| **Proposal** | *The poster intends to describe the work of a European project group developing materials and teaching units showing how the use of ICT and other technologies (e.g. GPS) can improve the visualization process in mathematics teaching and learning.* *To realize this objective we plan to use different specific characteristics of ICT: the possibility to generate various mathematical graphics as well as to modify and vary the images that come from mathematical visualization. These images include geometrical figures of all kinds in two or three dimensions; they include curves and surfaces, direction fields, contour plots and other similar figures; they include graphs (in the sense of graph theory) and other kinds of schematic diagrams. By that, ICT can be used very well to help developing modeling and simulation competencies, as well as competencies in graphical reasoning. The poster will therefore concentrate on the use of technology to this end, not as a mere tool for fast algebraic calculations. It will present examples of materials and teaching units, as well as information about the project and background research. The developed materials will be available at the projects’ webpage, accompanied by an e-learning course demonstrating its effective use in classroom.* |