

**Τίτλος:** The Many Facets of Proof and Proving

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**Περίληψη:**

While Proof and Proving is central to mathematics, there is evidence that students at all age and ability levels encounter difficulties in proving and understanding the main idea of a proof. The working group on this topic will address three main issues: 1. The need to prove (How can we create the need for proving?); 2. The interplay between examples and proof (How can we help students move from informal to formal proof?); 3. Proofs that have an explanatory nature (How can we make proofs more accessible and meaningful for students?).

The sessions will be structured around proof eliciting problems in which the participants will engage, followed by analysis of possible solutions and analysis of actual students' work. In addition, we will design proof eliciting tasks that can serve for teaching and for research.