



A new ERC for SISSA (dedicated to Trieste)



EU Grant of 1.66 Million Announced

12 February 2016

The International School for Advanced Studies (SISSA) in Trieste has won a considerable financial grant from the European Research Council (ERC) to study advanced reduced order modeling, an area of research that develops methods for simplifying and adapting supercomputing to handheld devices (such as smartphones, tablets, etc) . The Principal Investigator (PI) of the project is SISSA Professor Gianluigi Rozza. This is the School's fourteenth ERC.

AROMA - CFD is the acronym for the SISSA (Mathematics) project which recently won a prestigious and substantial award from the European Research Council (ERC). The term AROMA was not chosen at random. In fact, the project was dedicated to Trieste or "Coffee Town,"



explained SISSA Professor and Principal Investigator, Gianluigi Rozza. "Advanced Reduced Order Methods with Applications in Computational Fluid Dynamics, is the full title," continues Rozza. "We just received word of the funding, which was announced today at noon in Brussels and we are obviously very happy."

The aim of the project is to create a group of scientists within SISSA for the Study of Advanced Reduced Order Modeling techniques with a particular focus on computational fluid-dynamics. AROMA - CFD will lead to radical developments in numerical analysis, and the advanced knowledge gained within the project will have an impact on many sectors with industrial and medical applications (Aeronautics, Naval engineering, Sports, Vascular Surgery etc.) combining supercomputing and reduced models (in common household electronic devices) to ensure real time computing and visualization.

This is officially the fourteenth ERC grant the School has received, which is a great honor for Rozza and his colleagues as it confirms SISSA as one of the European institutions with the highest number of ERC grants in proportion to the number of faculty/professors.

IMAGE:

- *Gianluigi Rozza – credits: G. Rozza*

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