

Report of the European Workshop Complex Analysis and Applications CIM, Coimbra, July 1st, 2006

On the first of July of 2006 an European Workshop on *Complex Analysis and Applications* was organized at the International Center for Mathematics, Coimbra, Portugal.

This Workshop is a joint initiative of the Universities of Aveiro and Coimbra, satellite of the European Intensive Course on Complex Analysis and Applications to Partial Differential Equations that runs from June 26 until July 7, and was organized by Ana Foulquié and Isabel Cação (Aveiro University, Portugal), and Amílcar Branquinho and Jaime Carvalho e Silva (Coimbra University, Portugal), with support from the organizations:

- Centro Internacional de Matemática (CIM), Coimbra, Portugal.
- Centro de Matemática da Universidade de Coimbra, Portugal.
- Unidade de Investigação Matemática e Aplicações da Universidade de Aveiro, Portugal.
- Socrates/Erasmus of several countries of the European Union.

The aim of this Workshop was to introduce PhD students and young researchers to recent research and new research activities in the field of Complex Analysis and its applications to the theories of Quaternionic and Clifford Analysis, like Algebra, Geometry, Numerical Analysis and related topics like Differential Equations, and Special Functions. The next Workshop will be held in Coimbra (Portugal, July 2007).

This Workshop is intended to celebrate the long lasting co-operation between the involved Universities in the framework of SOCRATES/ERASMUS PROGRAMME. Students and Lecturers from almost a dozen European countries participated in the past and we hope that this will also continue in the future.

There were two invited lecturers:

- Andrei Martínez Finkelshtein (University of Almeria), that gave a lecture on “Asymptotics of Szegő polynomials for the analytic weight: the Riemann-Hilbert approach”.
- Eduardo Godoy Malvar (University of Vigo), that gave a lecture on “The structure relations and difference representations for orthogonal polynomials of hypergeometric type in two discrete variables”.

There were 42 participants, that came from 4 different countries, with a remarkable number of Spanish participants.

There were 6 PhD students that had prepared a short communication, and 5 participants that present a short communication.