



Integrability and Moduli

A conference in honor of Leon Takhtajan

by **Carlos Florentino***

The international conference *Integrability and Moduli*, in honor of Emeritus Professor and renowned mathematician Leon Takhtajan, took place this summer at the Faculty of Sciences of the University of Lisbon. From the 8th to the 12th of July 2024, the conference gathered many of Takhtajan's collaborators and co-authors, and some experts from all around the globe, on the topics of his long research career: integrable systems, quantization, moduli spaces, conformal field theory, representation theory, quantum groups, to name just a few.

This event had been initially scheduled for 2020, the year of Takhtajan's 70th birthday, with the Euler Mathematical Institute (EMI) in Saint Petersburg as the venue, but had to be cancelled (two years in a row) due to the Covid-19 pandemic. Moreover, given the unfortunate travel restrictions on many mathematicians coming from the Russian Federation, after 2022 it was clear that the conference would have to take place elsewhere.

Upon contacting the initial organizers and scientific committee, formed by professors Samson Shatashvili (Trinity College Dublin, Ireland), Fedor Smirnov (Sorbonne University, CNRS, France) and Peter Zograf (EMI, Russia), my suggestion of organizing the event in Lisbon was accepted, and the four of us successfully submitted it to the European Mathematical Society to become a Satellite Conference of the 9th European Congress of

Mathematicians (ECM 2024), held this summer in Seville, Spain.

After securing support from CMAFcIO and GFM (U. Lisbon), CIM and FCT (Portugal) and the Hamilton Mathematical Institute (Ireland), whom we gratefully thank, we were certain that the conference would be an astounding success. Indeed, we counted with eighteen great one-hour presentations by mathematicians coming from Europe, North America and Asia: A. Alekseev (Univ. Geneva), C. Choi (Perimeter Inst., Ontario), G. Cotti (Univ. Lisbon), R. Dey (ICTS Bangalore), P. Gothen (Univ. of Porto), A. Its (Indiana Univ.), V. Korepin (SUNY Stony Brook), A. Laptev (Imperial College), M. Mariño (Univ. Geneva), C. Meneses (Kiel Univ.), J. Park (KIAS Seoul), V. Pingali (IISC Bangalore), E. Sklyanin (Univ. York), M. Stošić (IST, Lisbon), D. Sullivan (SUNY Stony Brook), A. Veselov (Loughborough Univ.), L. Weng (Kyushu Univ.), P. Wiegmann (Univ. Chicago).

The conference had around 60 participants, including some PhD students, and also served to foster further collaborations in the areas of Geometry, Topology and Mathematical Physics, and to announce new research lines and open problems that may result in future active investigations. All information (including many of the slides of the seminars) is available at the website:

<https://sites.google.com/view/integrabilityandmoduli2024/>

* FCUL and CEMS.UL