

EDITORIAL COMMENT

We are proud to present the Book of Abstracts for the 5th BSC Severo Ochoa Doctoral Symposium.

During more than ten years, the Barcelona Supercomputing Center has been receiving undergraduate, master and PhD students, and providing them training and skills to develop a successful career. Many of those students are now researchers and experts at BSC and in other international research institutions.

In fact, the number of students has never decreased. On the contrary, their number and research areas have grown and we noticed that these highly qualified students, especially the PhD candidates, needed a forum to present their findings and fruitfully exchange ideas. As a result, in 2014, the first BSC Doctoral Symposium was born.

Last year, a total of 26 presentations were given, 32 posters were exhibited, a two days training on Deep Learning was conducted; and we reached more than 70 attendees.

In this 5th edition of the BSC Severo Ochoa Doctoral Symposium we have planned a keynote speaker' talk on *Quantum Disruption* and tutorials on *Key challenges for early-career researchers*, *How to become rich following an academic career* and *Marie Curie Individual Fellowships: Info & Best Practices*.

The talks will be held in four different sessions and will tackle the topics of: Programming Models and Computer Architectures, Simulations and Modelling, Life Sciences and Algorithms and applications. The posters will be exhibited and presented during two poster sessions that will give the authors the opportunity to explain their research and results.

The keynote speaker Dr. José Ignacio Latorre will give a lecture on *Quantum Disruption*. José Ignacio Latorre is Full Professor at the Universitat de Barcelona and is the leader of the Quantic group at Barcelona Supercomputing Center. He got his Ph. D. in Elementary Particle Physics at the Universitat de Barcelona on Elementary Particle Physics, was a Fulbright Fellow at MIT, a postdoc at the Niels Bohr Institute in Denmark, and a Long-term visiting professor at Center for Quantum Technologies in Singapore. He is the founder and director of the Centro de Ciencias de Benasque Pedro Pascual. He has worked as consultant for companies on artificial intelligence. He is a founder of Entanglement Partners. He wrote two popular books: "La Nada" and "Cuántica". He produces wine!