Short Bio

Renzo L. Ricca

After graduating from Politecnico di Torino, Ricca entered Trinity College Cambridge to read Mathematics. In 1991 he was awarded a *J.T. Knight Prize* in Mathematics while preparing his doctorate. He received his PhD from Cambridge University with a dissertation entitled *Geometric and Topological Aspects of Vortex Filament Motion*, under the supervision of Professor H.K. Moffatt. In 1992 he was elected Research Fellow, then Senior Research Fellow and Lecturer at University College London. In 2000 he lectured in Japan as a JSPS Fellow, and in 2004 he moved back to Italy as Professor of Mathematical Physics at the University of Milano-Bicocca. From 2016 he is a Distinguished Guest Professor of Beijing University of Technology, and from 2023 he is an Affiliate Member of the SKCM2 World Premier Institute of Hiroshima University.

During his academic life he visited many, prestigious institutions, including the Institute for Advanced Study (Princeton), the Kavli Institute for Theoretical Physics (Santa Barbara), the Newton Institute (Cambridge). He organised and directed several advanced schools and conferences, including some long-term intensive research programs, such as *Geometry and Topology of Fluid Flows* at the Newton Institute (2000), and *Knots and Applications* at the De Giorgi Mathematics Research Centre of the Scuola Normale di Pisa (2011).

He edited 5 books and published more than 90 papers on applications of geometric and topological aspects of ideal vortex dynamics and magnetohydrodynamics, in classical and quantum fluids, and defects in condensates.