

2014 EPS Edison-Volta Prize

The European Physical Society, Edison S.p.A
and the Centro di Cultura Scientifica "Alessandro Volta" are proud to announce
the award of the 2014 EPS Edison-Volta Prize is awarded to:

Jean-Michel Raimond

for "seminal contribution to physics (that) have paved
the way for novel explorations of quantum mechanics
and have opened new routes in quantum information processing"



Jean-Michel Raimond's PhD thesis was supervised by Serge Haroche at Ecole Normale Supérieure in Paris, France, in the early 1980's, and together Serge Haroche, Michel Brune and Jean-Michel Raimond have built an extremely successful research group since then.

J-M Raimond has made seminal contributions to the development of quantum electro-dynamics cavity experiments, in particular involving circular Rydberg atoms interacting with very high-Q superconducting cavities. This system has served as test-bed for groundbreaking experiments in exploring entanglement of photons and atoms, or in creating Schrödinger-cat states. One of the group's most spectacular experiments is the detection of a photon in a cavity without destroying it in the measurement process.

In the international scientific community, J-M Raimond's work is highly considered for its impact on the understanding of the interaction of electromagnetic radiation with matter, as well as for the elegance and beauty of his experimental realizations.

Since 1988, J-M Raimond is professor at Pierre-et-Marie-Curie University in Paris. From 2001 to 2011, he held a position at the

prestigious Institut Universitaire de France (and is an honorary member since then). He has been awarded the Ampere Prize of the French Academy of Science (together with M. Brune), as well as the Gay-Lussac-Humboldt Award by the German Humboldt foundation. He is an enthusiastic teacher and has held various positions for the management and organisation of science and higher education.

Jean-Michel Raimond will give a lecture for his award ceremony in Como on 21 June 2014.

EPS Edison-Volta Prize

The EPS Edison Volta Prize promotes excellence in research and is given in recognition of outstanding research and achievements in physics. The EPS Edison Volta Prize is given biennially to individuals or groups of up to three people. The laureates receive a medal, which is a faithful reproduction of the "Medaglia Premio dell' Associazione per l'Incremento del



Commercio in Como": a portrait of Alessandro Volta together with the saying: Alexandro Voltae Novocomensi, i.e. (dedicated) to Alessandro Volta from Novum Comum, which was the old name given to the city of Como by Julius Caesar.

The Prize was established in 2011 and was awarded for the first time in 2012 to R. D. Heuer, S. Bertolucci and S. Myers for having led, building on decades of dedicated work by their predecessors, the culminating efforts in the direction, research and operation of the CERN Large Hadron Collider, which resulted in many significant advances in high energy particle physics, in particular, the first evidence of a Higgs-like boson in July 2012.

Background Information

The European Physical Society (EPS) provides an international forum for physicists and acts as a federation of 42 national physical societies. Founded in 1968, the EPS now has around 4000 individual members, and it Members Societies represent together over 100,000 physicists. (More: www.eps.org)

The other partners and sponsors of the Prize are Edison S.p.A. (www.edison.it) and the Centro di Cultura Scientifica "Alessandro Volta" (www.centrovolta.it).