



ALAIN ASPECT

**FASCINATION
FOR
QUANTUM
WEIRDNESS**

**SALON DE GRADOS
JULY 2: 12:00, 15:00, 16:00
JULY 3: 10:00**

**BIZKAIKO CAMPUSEKO ERREKTOREORDETZA
QUINST/ DPTO DE QUIMICA FISICA**

Alain Aspect

Institut d'Optique, Palaiseau,
France



His comments on the 4 talks

1. From Einstein's intuitions to quantum bits: a new quantum age. This is about Bell's inequalities tests and the development of quantum information. For a general public of physicists. My most cited work.
2. Wave particle duality for a single photon: from Einstein to Wheeler's delayed choice experiment. Can be followed easily by a broad audience, as well as by physicists. A text book experiment for a course in quantum optics, but still fascinating..
3. Hanbury Brown and Twiss effect: from photons to atoms. A talk much appreciated by AMO physicists, about the crucial role of the HBT effect for the development of modern quantum optics, and about present research in Quantum Atom Optics as done in my group.
4. Anderson localization of ultra-cold atoms: a quantum simulator. A recent and fruitful line of research with quantum gases.