

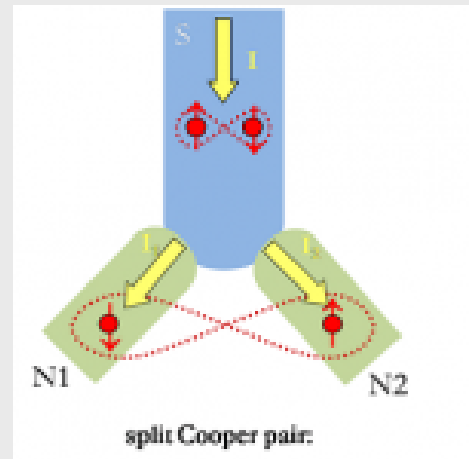
## SE2ND - Source of Entangled Electrons in Nano Devices

Funding Agency: Seventh Framework Programme (FP7).

Duration: January 2011 – December 2014.

Principal Investigator: [Alfredo Levy Yeyati](#).

Project website: [Click Here](#).



Description:

**S**ource of Entangled Electrons in Nano Devices – SE2ND is an ambitious project granted by the FP7 FET-Open initiative of the European Commission. SE2ND is a joint effort of experimental and theoretical physicists to develop a highly efficient and continuous solid-state source of spatially separated spin-entangled electrons. A source of this kind, integrated with other electronic elements, will be of great importance in future quantum processors, where they provide, for example, the entanglement distribution required to synchronize quantum circuits, or enable secure communication.