

Abstract Submitted  
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**AC Josephson effect without superconductivity, and other effects of radio frequency quantum nanoelectronics** XAVIER WAIN TAL, BENOIT GAURY, JOSEPH WESTON, INAC, CEA Grenoble, France — With single coherent electron sources and electronic interferometers now available in the lab, the time resolved dynamics of electrons can now be probed directly. I will discuss how a fast raise of voltage propagates inside an electronic interferometer and leads to an oscillating current of well controlled frequency. This phenomena is the normal counterpart to the AC josephson effect. I will also briefly advertize our software for computing quantum transport properties, Kwant (<http://kwant-project.org>) and its time-dependent extension T-Kwant.

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