## **Speaker: Atac IMAMOGLU (ETH Zurich, Switzerland)**

Title: Kinetic magnetism in moire materials

**Abstract**: will describe recent experiments where we observed kinetic magnetism in a semiconductor moire material. By developing an accurate method to directly measure the degree of magnetic polarization of electrons, we observe an abrupt, striking increase in spin susceptibility as we increase the electron doping beyond half-filling using electrical gates - in agreement with the Nagaoka mechanism. These experiments reveal the richness of magnetic properties of extended Fermi-Hubbard model in triangular moire lattices.