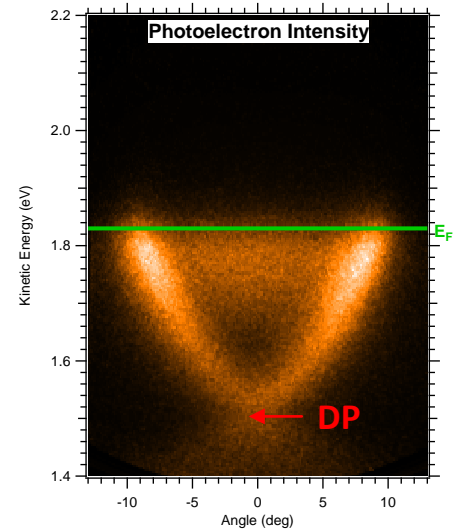
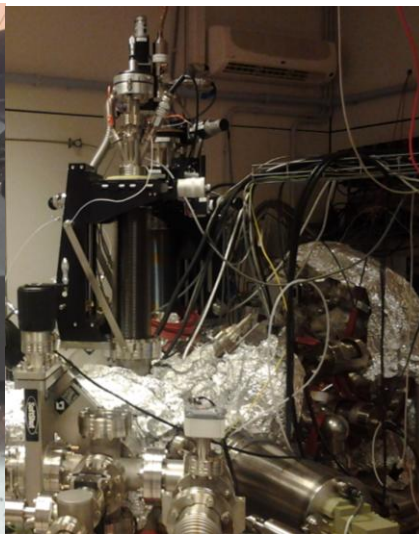




Positions for Master Thesis and PhD

available at the T-ReX Laboratory (Elettra)

Open positions for either Master Thesis or PhD are available at the T-ReX Laboratory, leaded by Prof. Fulvio Parmigiani, within the Fermi@Elettra Project. Our group has a well-established and worldwide recognized expertise in non-equilibrium spectroscopies. In particular, we can offer state-of-the-art Time-Resolved Angular Resolved Photoemission Spectroscopy (TR-ARPES) as a powerful experimental tool to probe the out-of-equilibrium electronic structure of Topological Insulators and strongly correlated electron materials, such as Iridates or Copper and Iron based high-temperature superconductors. Time and Angular Resolved Photoemission is among the leading experimental techniques to study the result of the interaction of ultrashort light pulses (~ 100 fs) with complex materials, thanks to its unique capability of providing the temporal evolution of the electronic band structure of the material, resolved in the crystal momentum space. Only a few similar facilities are available worldwide. For further details and scientific or logistic information, please do not hesitate to contact us.



The images show: i) the ultrafast laser system; ii) the experimental ARPES chamber; iii) an ARPES intensity map measured on the Bi_2Se_3 Topological Insulator, showing the topological surface state band. The Dirac Point (DP) is indicated.

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T-ReX Skype: [laboratorio.trex](https://www.skype.com/join/laboratorio.trex)



Link to the T-ReX
Laboratory website