IAEA-ELETTRA COLLABORATING CENTER

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Elettra-Sincrotrone Trieste is a multidisciplinary international research center offering complementary capabilities of many advanced tools for spectroscopy, scattering, imaging, spatial and temporal resolution, using synchrotron and free electron laser light. These techniques have opened unique opportunities to multidisciplinary user community of Elettra to explore the properties of complex static and dynamic systems, spanning over all domains of material and life sciences. Elettra-Sincrotrone Triese was IAEA Collaborating Centre in the period 2005 – 2014 and was again nominated in 2020. One of the 28 independently operating beamlines is the X ray fluorescence beamline, operated in partnership with IAEA since 2013, where 40% of the beamtime is reserved for IAEA to facilitate the access of Member States to state-of-the-art synchrotron-based techniques, coordinated research activities, and fostering know-how transfer through on-site experimental training, schools and workshops. More than 50% of the Elettra user community is coming from abroad with increasing number from developing countries, in collaboration with IAEA and ICTP (UNESCO). Selected results of users from the member states, obtained at XRF and other Elettra beamlines, will demonstrate the necessity to expand further the use of accelerators for synchrotron light to speed-up technological developments and solving health and environmental hazards, ultimately improving the quality of people life.

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