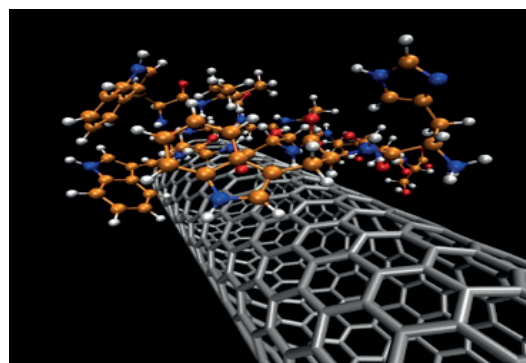
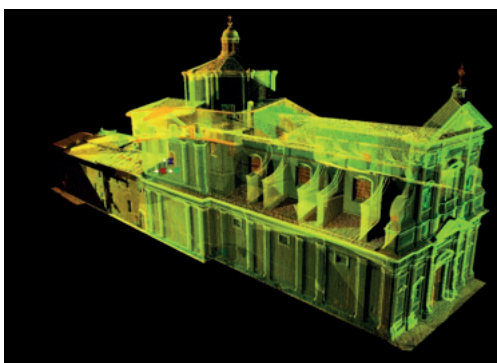


FNG NEUTRON GENERATOR

Innovations and Benefits - FNG is the only 14 MeV high-intensity neutron generator present in Italy. FNG produces 1011 neutrons/second and allows to perform irradiation for several hours. The 14 MeV neutrons are a standard to simulate the ionizing radiation present in the ionosphere and in interplanetary space. Irradiation with fast neutrons allows measurement on the electronic chip of the number of SEU (Single Event Upset), a measure of the degradation of the response generated by the ionisation dose rate.

Uses - Studies of damage and operational response of electronic components to be used in aeronautics and space applications. In addition to the testing the response of electronic components, with FNG it is possible to characterize and calibrate nuclear detectors

Past and Present Activities - Several irradiation sessions have been performed on behalf of industries or R&D laboratories. To mention a few: NUCLETUDES (FR); National Instruments Italia; Jefferson Lab (USA); INFN and CNR (Italy).



Characteristics: CUSTOM

Thanks to its flexibility, the service can be adjusted to different needs and contexts