

IRRADIATION SYSTEM COMPRISING A TARGET HOLDER MOUNTING IN A RADIATION PROTECTION CHAMBER AND AN IRRADIATION BEAM DEFLECTION DEVICE

Abstract

The present application relates to a system for irradiating a target (1), including a particle accelerator (10) configured to at least emit an irradiation beam (11) according to an axis, a target-holder mounting (20) outside the accelerator, including at least one port (21) configured to receive a target holder (22) for a target to be irradiated, and a radiation protection enclosure (30) surrounding the target-holder mounting (20). The particle accelerator (10) is positioned outside the enclosure (30). The target-holder mounting (20) is stationary relative to the particle accelerator (10). The port (21) is offset relative to the axis of the irradiation beam (11) and the system (1) includes a deflection device (40), positioned in the radiation-protection enclosure (30) and configured to divert the irradiation beam (11) towards the port (21) of the target holder (22) in which the target to be irradiated is inserted.

Figure 1