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Light Ions Acceleration Line (L3IA): commissioning and test experiments

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The construction of a novel Laser driven Light Ions Acceleration Line (L3IA) is progressing rapidly towards the operation, following the recent >100 TW scale upgrade of the ILIL-PW laser facility. The Line was designed following the pilot experimental activity carried out earlier at the same facility to define design parameters and to identify main components including target control and diagnostic equipment, also in combination with the systematic numerical simulations for the optimization of laser and target parameters. A preliminary set of data was acquired following the successful commissioning of the laser system. Data include output from a range of different ion detectors and evaluation and a first set of target parameter scans carried out for qualification of the laser-target interaction. An overview of the results will be given along with a description of the L3IA set up and a summary of the relevant upgraded ILIL-PW facility and features.

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