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Detection of Laser-accelerated ions at the DRACO laser

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In the last years, the detection schemes for laser-accelerated ion beams had to be developed much further. In the beginning, experiments were mainly performed on laser facilities with a few shots a day and online diagnostics such as film stacks were sufficient in order to characterize the ion beam. Nowadays many experiments are carried out at high power lasers with repetition rates on the order of 10 Hz and thus the need of on line detectors has grown significantly.

In this talk, the ion accelerator at the 100 TW laser DRACO in Dresden is described. Already implemented detectors such as MCPs and scintillators as well as desirable devices for future measurements are described.

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