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How high-power accelerators damage thin wires

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Thin targets are used in high-power accelerators because of low energy deposited by the beam and fast cooling. Extreme beams test the limits to those structures. A series of damage tests done on CERN machines on carbon fiber targets used in wire scanners is presented. Damage events observed on PSI machines on carbon fibers and molybdenum wires are discussed.

Presenter: SAPINSKI, Mariusz (Paul Scherrer Institute (CH))Session Classification: Beam instrumentation needs 2/2