

The Current LIGHT Beamline at Z6

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The experimental parameters and results are presented in detail: The available laser parameters from the PHELIX 100 TW laser beamline, the accessible proton beam parameters from the TNSA source at Z6, the applied ion optics for energy selection and beam transport and the installed radio-frequency cavity. Two operational modes have been demonstrated successfully for protons in the range of 10 MeV energy: 1. energy compression of the bunch to <3% energy spread and 2. phase focusing to a pulse length <500ps, in both cases with about 10^9 protons in a single short bunch.

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Session Classification: LIGHT: Status Quo and Next Steps I