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Status of negative muon at D-Line

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The D-line of the J-PARC MLF MUSE has a pion decay section, which makes it possible to use decay muons. The superconducting solenoid magnet used in the pion decay section has a large bore and thus produce the world's highest positive and negative muon intensities. Since the D-line is currently the only beamline at MUSE where practical negative muon intensity is available, various user experiments are being conducted using negative muons, especially in nondestructive elemental analysis, negative muon spin relaxation, soft errors in semiconductors, and so on. In addition, the beamline has been commissioned in various ways including beam tuning to meet the requirements of these experiments. In this talk, we will report on the recent progress of upgrading at D-line.

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