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Status of ImPACT Program in Japan aiming for repeatable GeV-class LWFA

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The ImPACT program in JAPAN is funding an effort on laser wakefield acceleration (LWFA) with the goal of very stable/repeatable beams that should be used for constructing a plasma-based FEL. Important results on stability, controllability, repeatability of electron beams and staging LWFA have been shown in the experiments at Osaka University and QST. These results will be presented and discussed. A future experimental site at SPRING-8/RIKEN is being prepared. The plans towards a test area on a plasma FEL at SPRING-8 will be presented.

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