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## Energy Recovery in Beam-Driven Wakefield Accelerator.

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An experiment at the Argonne Wakefield Accelerator toward implementing an energy recovery scheme in a beam-driven structure wakefield accelerator is in preparation. The experiment use a drive and locaing bunch to excite and turn of the wakefield. Such a configudation allows the generation of short THz pulse (below the one imposed by the structure group velocity) and could provide a phath the higher fields in SWFA. The experiment uses dielectric-lined waveguide in its first implementation. The experiment, expected outcome nd preliminary data will be discussed.

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