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FFA injection systems using pulsed magnets

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Existing FFAs use fixed field injection systems, possibly using charge exchange foils. In synchrotrons it is more conventional to use pulsed magnets to bring beam into the ring in addition to the charge exchange injection. In this presentation the use of a pulsed magnet system is considered for injection into horizontal and vertical FFAs proposed for ISIS upgrades. Simulation of the lattices in OPAL is discussed. The necessary magnet parameters are studied, together with effects such as dynamic aperture reduction that may occur due to the bump magnets.

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