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Bridge topology as primary switch for magnetic pulse compression circuit

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An IGBT switch together with a blocking diode is normally used for the primary switch in a magnetic pulse compression circuit. In the presented paper a full bridge configuration as a primary switch is proposed. The configuration shows advantages especially for high repetition rate systems. It shows also higher efficiencies because no special network is necessary for the reflected energy. The system can work with different kind of loads including short circuit and open loop. Design, calculations and first test results are presented.

Primary author: STROWITZKI, Claus (Mlase AG)

Presenter: STROWITZKI, Claus (Mlase AG)

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