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Development of a coaxial switched oscillator

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A pulsed power system based on a coaxial switched oscillator was built and tested. The switched oscillator is charged to over 100 kV either by a Marx generator or a PZT-based autonomous power supply. When coupled to a helical antenna, the system generates electromagnetic radiation with a frequency bandwidth centred on 500 MHz.

Primary authors: NOVAC, Bucur (Loughborough University); Mr SENIOR, Peter (Loughborough University); Prof. SMITH, Ivor (Loughborough University)

Presenter: NOVAC, Bucur (Loughborough University)

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