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Impedance matching of pulsed power accelerator for megajoule-class dynamic-material-physics experiments

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The pulsed-power accelerator uses its parallel branches triggered to shape the load-current pulse as required for a material physics experiment. We obtained the energy efficiencies is only depended of the pulsed power accelerator impedance and the load impedance with any order of the branches triggered. It is the highest that the pulsed power accelerator impedance (impedance of the parrallel branches) is equalled to the load impedance.

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