



Contribution ID: 232

Type: **Poster**

Helical magneto-cumulative generator to power plasma focus chamber

Tuesday 20 June 2017 13:30 (1h 30m)

This paper presents investigation results of the helical magneto-cumulative generator of 100 mm diameter intended for plasma focus powering by the current of more than 2 MA. A cylindrical explosive current opening switch with copper foil located on the 100 mm diameter is used to form a current pulse with a steep front in the plasma load. The magneto-cumulative generator has an effective magnetic flux finish pressing out after the opening switch operation start to compensate current decrease due to the growing load inductance.

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Session Classification: Poster session II - High-Energy Density Physics and Technology

Track Classification: High-Energy Density Physics and Technology