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Mechanical design studies of the pulsed solenoid for positron sources

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A prototype pulsed solenoid has been developed, and the key concepts that distinguish our approach from conventional designs are presented. An alternative method for constraining the windings against longitudinal displacement is proposed. To enhance positron yield, the solenoid is designed to be positioned in close proximity to the target; accordingly, the first turn is oriented parallel to the plane of the rotating target wheel.

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