



THE UNIVERSITY OF
WARWICK

FLUKA Study: Graphite Target Power Deposition

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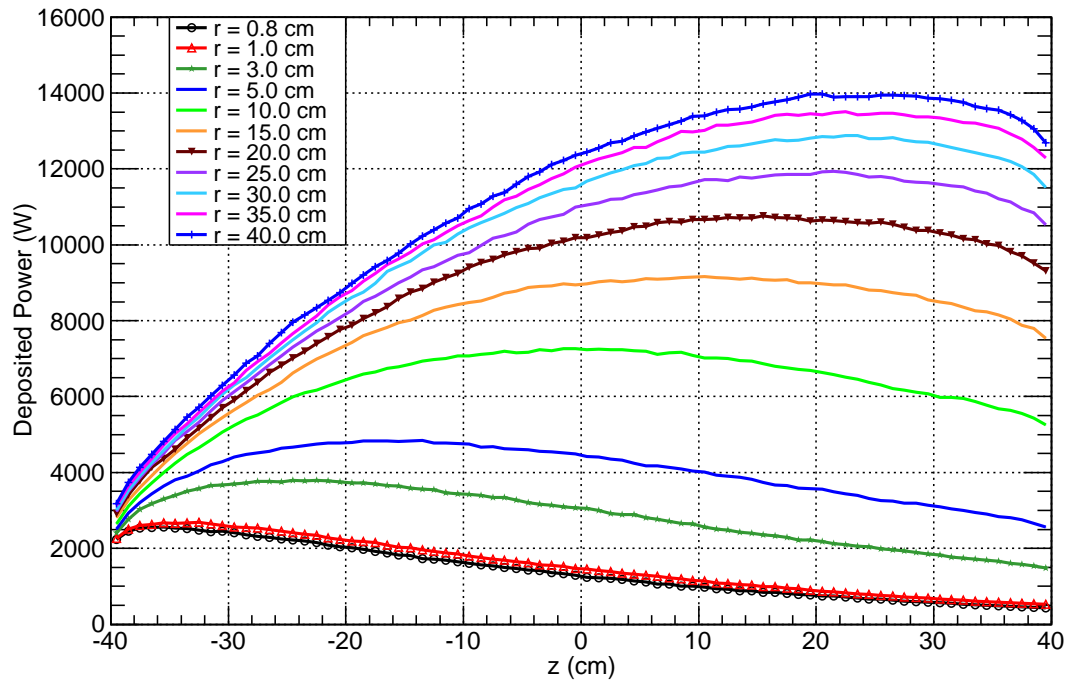
University of Warwick

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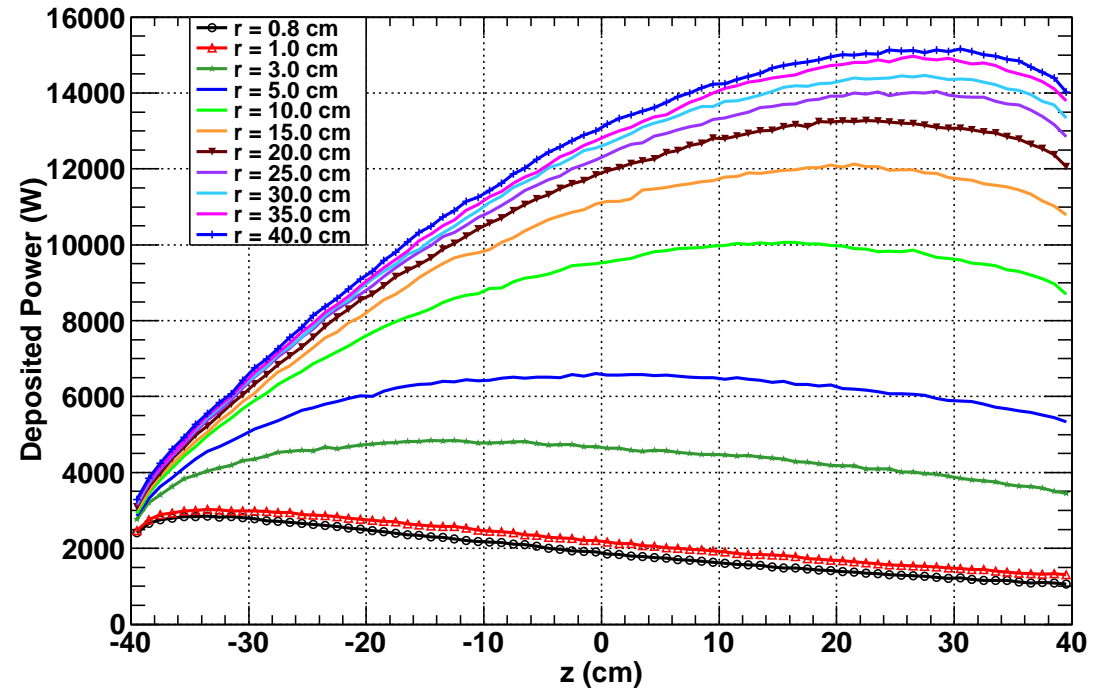
Introduction

- Using Fluka 2011.2b.6 for power deposition study of 80–cm–long graphite (1.8 g/cm^3) targets of various radii ($R = 0.8$ to 40 cm)
- 4 MW proton beam along z axis with $\text{KE} = 6.75 \text{ GeV}$, no tilt angle, rms size of 2 mm

Power deposition along z



No magnetic field



20 T uniform magnetic field

z of peak power & total deposited power

