

Influence of proton bunch parameters on a proton-driven plasma wakefield acceleration experiment

M. Moreira^{1,2}

J. Vieira¹, P. Muggli^{2,3}

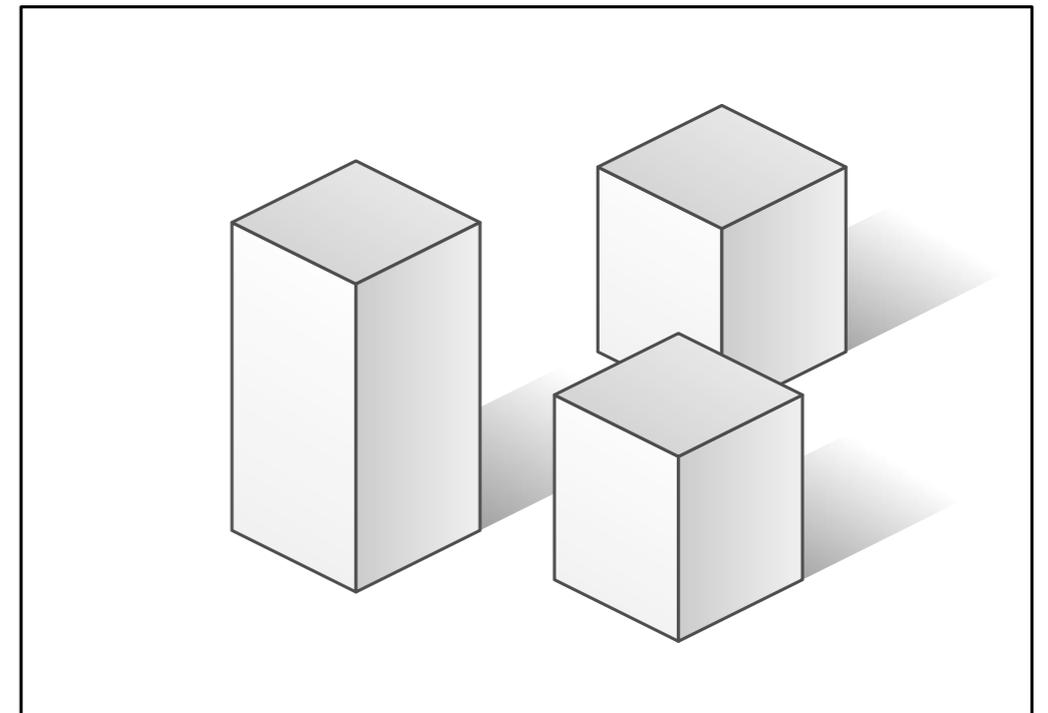
¹ GoLP / Instituto de Plasmas e Fusão Nuclear
Instituto Superior Técnico, Lisbon, Portugal

² CERN, Geneva, Switzerland

³ Max Planck Institute for Physics, Munich, Germany

epp.tecnico.ulisboa.pt

golp.tecnico.ulisboa.pt



Proof-of-concept experiment

400 GeV proton bunch

10 m plasma

Successful Run 1



Demonstrated acceleration of electrons

