

Abstract Submitted
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Electron Beams in Wire Array Z-pinches SIMON BLAND, GARETH HALL, SERGEY LEBEDEV, SIMON BOTT, JAMES PALMER, FRANCISCO SUZUKI, JEREMY CHITTENDEN, Imperial College London — The intensity and the radial profile of electron beams from wire-array z-pinches have been measured on the MAGPIE generator (1MA, 240ns) at Imperial College, London. A Faraday-cup was used to measure the electron beam current from both aluminium and copper wire-arrays with spatial and temporal resolution. Time integrated hard x-ray spectroscopy using spherically-bent crystals produced axially resolved images of the copper K_{α} line, a signature of the presence of electron beams. This research was sponsored by Sandia National Laboratories Albuquerque, the SSAA program of NNSA under DOE Cooperative Agreement DE-FC03-02NA00057.

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