

Abstract Submitted
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Aluminum Wire Array Experiments on the Z Generator¹ D.J. AM-
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LIANI, Naval Research Laboratories — Wire array Z-pinches consisting of Al wires
are a bright source of > 1 keV emission. We discuss data from recent experiments
with large diameter Al wire array Z-pinches on the Z generator. Wire arrays at
40mm, 50mm and 65mm were imploded on the Z generator. Soft x-ray self-emission
imaging is used to study the implosion dynamics. Spectroscopy is used to diag-
nose plasma conditions as material stagnates on the axis. Data indicates significant
free-bound continuum emission is present. We will discuss the variation in plasma
conditions and emission characteristics as the initial wire array setup is varied.

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