

Abstract Submitted
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A Cold Strontium Ion Source¹ CHRISTOPHER J. ERICKSON,
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versity Idaho, STUART HARPER, DALLIN DURFEE, Brigham Young University
— We present a cold ion source for strontium 87. The source is based off of a stan-
dard Low-Velocity-Intense-Source (LVIS) for strontium using permanent magnets in
place of anti-Helmholtz coils. Atoms from the LVIS are then ionized in a two photon
process as they pass a 20kV anode plate. The result is a mono-energetic beam of
ions whose velocity is tunable. Applications for the ions include spectroscopy and
ion interferometry.

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