

Abstract Submitted
for the DNP12 Meeting of
The American Physical Society

Hydrogen-like Atoms as Angstrom-scale Muon detectors AGNES MOCSY, Pratt Institute and Brookhaven National Laboratory, MAURICIO MARTINEZ GUERRERO, University Santiago de Compostela, Spain — We estimate the number of different exotic hydrogen-like atoms produced in relativistic heavy-ion collisions at RHIC and the LHC. WE argue that such atoms can be thought of as Angstrom-scale muon detectors, allowing one to unveil the shine of the quark-gluon plasma that is buried in the background, by inferring the single lepton spectra where direct measurements are not feasible.

Agnes Mocsy
Pratt Institute and Brookhaven National Laboratory

Date submitted: 10 Jul 2012

Electronic form version 1.4