

Abstract Submitted
for the DNP08 Meeting of
The American Physical Society

Sterile Neutrino Dark matter CHAD KISHIMOTO, GEORGE FULLER, UC San Diego — We discuss medium-enhanced, neutrino scattering-induced production of dark matter candidate sterile neutrinos in the early universe. We compare a complete quantum kinetic equation treatment with the widely used quantum Zeno ansatz. We discuss the resultant sterile neutrino energy spectra and the role these may play in obtaining astrophysical constraints on these dark matter candidates.

Chad Kishimoto
UC San Diego

Date submitted: 01 Jul 2008

Electronic form version 1.4