

Abstract Submitted
for the SES11 Meeting of
The American Physical Society

From Finite Nuclei to Neutron Stars WEI-CHIA CHEN, JORGE
PIEKAREWICZ, Florida State University — We will discuss attempts to build a
relativistic density functional using constraints from both finite nuclei and neutron
stars. The calibration of the model will proceed through a standard minimization of
a quality chi-square measure. Moreover, by studying the model-parameter landscape
around the minimum we will be able to provide meaningful theoretical error bars as
well as to uncover correlations between physical observables.

Wei-Chia Chen
Florida State University

Date submitted: 24 Aug 2011

Electronic form version 1.4