APR15-2014-000072

Abstract for an Invited Paper
for the APR15 Meeting of
the American Physical Society

Edward A. Bouchet Award Talk: Nuclear liquid-gas phase diagram - What have learned?[1]

JORGE LOPEZ, University of Texas at El Paso

Heavy ion reactions started fragmenting nuclei since the 1980. In the intervening decades the study of such fragmentations taught us that nuclear matter has both liquid and gaseous phases that can undergo phase transitions, can exhibit critical phenomena, and many other rich phenomena. In this talk a summary of experimental and theoretical efforts leading to the understanding of the thermodynamical properties of nuclear matter will be presented, including those recent ones that extend the phase diagram in a new direction: isospin.

[1]Work supported by NSF Grant 1066031.