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The nature of compressed baryonic matter

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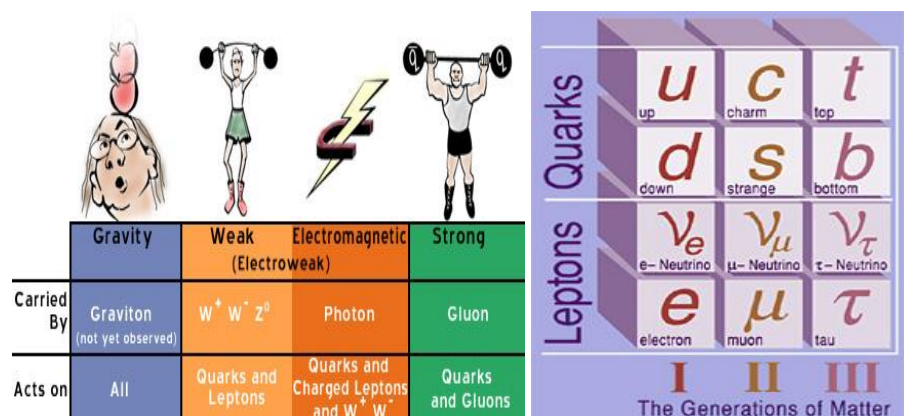
Dr. Renxin Xu majored in nuclear electronics as an undergraduate in Chengdu College of Geology (bachelor of engineering, 1989.7) and developed portable nuclear spectroscope in Beijing Research Institute of Uranium Geology. He became an astrophysics graduate in Peking University in 1991 (master of science, 1994.7; Ph.D., 1997.7) and started his astronomical career afterwards. Dr. Renxin

Xu is a professor at department of astronomy, school of physics, Peking University. His main research interests are in the fields of nuclear and particle astrophysics, including that of pulsar, neutron star, quark star, supernova, gamma-ray burst and cosmic ray. He’s now working for two projects in China: FAST and HXMT.

Abstract

Nuclei contain almost all the mass of normal baryonic matter. What if matter is compressed more and more? Where can we find such kind of matter? Why should one be interested in it? What could be its

state? Our answer is: compressed baryonic matter can be created during supernovae and it is composed by quark-clusters the interaction between which might be Lennard-Jones-like.



All are welcome! Tea, coffee, biscuits will be served at 2:45 P.M.

You are welcome to nominate speakers to Shude Mao (shude.mao@gmail.com), Licai Deng (licai@bao.ac.cn), Xuelei Chen (xuelei@cosmology.bao.ac.cn).