720/820 Nuclear Physics - Suggested Project Topics

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1. The quark model
2. Electron-nucleus scattering
3. Fission energy
4. Fusion energy
5. Solar neutrinos
6. Quark-gluon plasma
7. Chiral symmetry and pions
8. Parity violation in nuclear physics
9. Heavy ion physics
10. Nucleosynthesis (big bang)
11. Nucleosynthesis (heavy elements)
12. Supernovae
13. Low-energy NN scattering
14. Double beta decay
15. Atmospheric neutrinos
16. Nuclear physics from Ads/CFT
17. Neutron stars
18. Hypernuclear physics
19. Terrorism and nuclear weapons
20. Nuclear energy policy
21. Deformed nuclei