Physics Projects Course 2nd **Semester, 5753**

Difficult, Dubious, and Wrong Experiments

(עורבא פרח, עורבא פורח)

Suggested Project Titles

B. Svetitsky

1. Discovery of the free quark (Fairbank) [dubious]
2. Gravitational wave detection (Weber, Sadeh) [difficult]
3. Cold fusion [wrong]
4. The fifth force [dubious]
5. The 17 KeV neutrino (Simpson) [wrong]
6. The solar neutrino problem (if any: Davis, SAGE, GALLEX, ...) [difficult & dubious]
7. Is the neutrino mass negative? (endpoint experiments) [new!]
8. Atmospheric neutrinos – the missing ν_μ's [new!]
9. Vacuum sparking and the GSI positron lines [dubious]
10. Neutrinoless double β decay [difficult]
11. Discovery of the magnetic monopole (Price) [wrong]
12. Discovery of the magnetic monopole (Cabrera) [wrong]
13. The "Centauro" cosmic ray events [probably OK, but puzzling]
14. The search for superheavy elements (Marinov and others) [difficult, dubious]
15. Oblateness of the sun (Hill vs. Dicke) [dubious]
16. Polywater [wrong]