THE CHINESE UNIVERSITY OF HONG KONG
Department of Physics
Courses to be offered in Summer 2002

**PHY 4910  Advanced Laboratory**
3 Units
Experiments on physics and materials science. Prerequisite: permission of the instructors.

List of experiments:

**PART I**
Teacher : Professor H K Wong  
Venue : SC 112
1: Compton Scattering and Gamma Spectroscopy  
2: X-ray Spectroscopy  
3: Special Relativity and \( \beta \) Spectroscopy

**PART II**
Teacher : Professor W K Lee  
Venue : SC 115
1: Spectral Response of a Photodiode and a CCD Chip  
2: Fractals Formed by Electro-Chemical Deposition  
3: Electron-Hole Recombination  
4: Nuclear Magnetic Resonance and Electron Paramagnetic Resonance  
5: Depletion Layer Capacitance of a Semiconductor Diode  
6: Nitrogen Laser Pumped Dye Laser

**Period**: Tuesday & Wednesday

**PHY 4530  Selected Topics (Astrophysics)**
3 Units
Introduction to Modern Astronomy and Cosmology. Star Formation and Pre-Main Sequence Evolution. Main Sequence Stars. Post Main Sequence Evolution: Red Giants, Supernovae, White Dwarfs, Neutron Stars and Black Holes. Prerequisites: Students must have passed PHY 3111, PHY 3122 and PHY 3052 (or their equivalents) or permission of the instructor.

Teacher : Professor W M Suen
Period : M3-4, W3-4, F3-4
Venue : SC L5

*Course Registration Deadline : May 15, 2002*
*Duration : from May 9 to June 24, 2002*
*Submission of Final Grade : June 28, 2002*

Subject to Further Changes

April 25, 2002