Physics

PHYS 582  **General Field Theory**  credit: 4 hours.

(PHYCS 483) Covers standard techniques of field theory as used by experimenters and theorists; relativistic quantum mechanics of a single particle; Lagrangian field theories, perturbation theory, and calculation of lowest-order processes; introduction to Feynman diagrams and higher order processes; examples taken from quantum electrodynamics, solid-state and elementary particle physics, and many-body theory Prerequisite: PHYS 581 or consent of instructor

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