

21世紀COEセミナー

日時：2006年12月21日（木） 13：30～14：30

場所：理学部H棟6階中セミナー室（H601）

講師：William Michael Snow 教授（IUCF, Indiana University）

題目：**Neutron-Antineutron Oscillations**

概要：

Observation of neutron-antineutron oscillations would constitute a discovery of fundamental importance. It requires B violation by 2 units and therefore probes different physics from proton decay. B violation is needed in Sakharov mechanism to generate the baryon asymmetry of the universe in the Big Bang. I will review the scientific motivation to search for B violation, describe present limits on $\Delta B=2$ processes, and describe two possible experimental approaches to improve the present limits: one using cold neutrons, another using ultracold neutrons.

（担当：松多 5520）