

# 平成 16 年度 第 3 回 VBL セミナー (3rd VBL Seminar, 2004)

日時：平成 16 年 10 月 15 日(金) 14:00~15:00

場所：名古屋大学フロンティアプラザ (VBL)  
4F セミナー室

講師：Prof. Ian K. Robinson

(VBL 招聘研究員、

Professor of Physics, Materials Research Laboratory,  
University of Illinois at Urbana-Champaign, USA)

Ian Robinson is currently professor of physics at the University of Illinois, Urbana. His PhD was in biophysics from Harvard University and he then spent 11 years at Bell Laboratories. He pioneered the application of synchrotron X-ray diffraction to study surfaces in vacuum at the NSLS, Brookhaven, introducing the crystal truncation rod method.

In 2000 he was awarded the ACA Warren prize for Diffraction Physics in recognition of this work.

題目：“Coherent X-ray Diffraction analysis of Semiconductor  
Quantum Dot structure”

Exploitation of coherence is the latest frontier in synchrotron radiation science, presented to us by the technical wonders of the third generation machines, such as Spring8. This talk will demonstrate how coherence can be used to probe new aspects of structure. Three dimensional images of the internal structure within crystals have been obtained on nanometer length scales. Methods are currently under development for preserving the coherence with suitable optics for reaching ever smaller crystalline objects. Individual dislocations and buried quantum dots will be accessible one day.

問い合わせ先：名古屋大学 VBL

田渕 雅夫

Tel:052-789-5430

E-mail:tabuchi@vbl.nagoya-u.ac.jp