



独立行政法人理化学研究所 仁科加速器研究センター  
第60回RIBF核物理セミナー

RIKEN Nishina Center for Accelerator Based Science  
The 60<sup>th</sup> RIBF Nuclear Physics Seminar

## Superdeformation of $^{40}\text{Ca}$

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Dr. Oi Makito (Physics Department, University of Surrey)

A theoretical investigation of the SD band of  $^{40}\text{Ca}$  is presented. By performing the cranked HFB method with the P+Q interaction, I emphasize the importance of the simultaneous treatment of the triaxiality, the pairing correlation, the Coriolis force, and the  $d_{5/2}$  and  $g_{9/2}$  single-particle levels. Such a consistent analysis has been not yet applied in the previous investigations based on truncated shell-model calculations, mean-field methods, and so on.

Apr. 23(Wed), 2008 13:30-  
RIBF 2F Room 203, RIKEN

*The seminar will be given in English or Japanese*

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