

# 679th ASRC Seminar TPI Seminar 9-1

Date: 13:30~ Wednesday, 10 May

Location: Conference room #5 Laboratory building No. 1

Speaker: Prof. Ikuko Hamamoto  
(RIKEN & Lund University)

Title: Chiral Bands in Nuclei

**Abstract:** Spontaneous symmetry breaking is an important phenomenon in a physical system, various forms of which have been observed in nature. In particular, spontaneous formation of handedness or chirality is a subject of general interest in molecular physics, optical physics, and elementary particles.

The occurrence of chirality in a nuclear structure has been studied from time to time for the last 20 years, both theoretically and experimentally.

Chirality in triaxial nuclei is characterized by the presence of three angular-momentum vectors, which are generally noncoplanar and thereby make it possible to define chirality. In the talk the basic mechanism of nuclear chirality and the possible observation of related phenomena will be discussed.

Seminar slides can be found (after the seminar) at  
[http://silver.j-parc.jp/hadron/hadron\\_seminar/index.html](http://silver.j-parc.jp/hadron/hadron_seminar/index.html)

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