

605th ASRC Seminar

Date: 13:30 ~ 14:30 9 November

Location: Meeting Room 302, ASRC bldg.

Speaker: Dr. Alessandro Feliciello (Istituto Nazionale di Fisica Nucleare, Sezione di Torino)

Title: Some recent results on the weak decay of Λ -hypernuclei by the FINUDA experiment

Abstract: The systematic study of weak decay process of p -shell Λ -hypernuclei was one of the major commitments of the FINUDA experiment. This effort was motivated by the strong intrinsic interest of the subject, due to its sizeable impact on several aspects of both experimental and theoretical hypernuclear physics. The special characteristics of the apparatus permitted the observation of both the mesonic and the non-mesonic decay modes.

After the initial analysis targeted on the mesonic decay channel, in the last few years the attention was focused on non-mesonic decay modes. Such activity led to the important achievement of the experimental determination of the decay width of the two-nucleon induced process. Very recently, by gathering all the available experimental information, it was possible to determine for the first time the width of the one-proton induced decay for several p -shell Λ -hypernuclei.

なお、今回のセミナーは、第45回「原子核ハドロン物理セミナー」を兼ねておりま
す。セミナー内容は
http://silver.j-parc.jp/hadron/hadron_seminar/index.htmlでご覧になれます。

<Contact>

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