

682nd ASRC Seminar

TPI Seminar 9-2

Date: 15:00~ Wednesday, 10 May

Location: Conference room #5 Laboratory building No. 1

Speaker: Prof. Atsushi Hosaka
(Osaka University)

Title: Chiral Symmetry in Hadrons

Abstract: Chiral symmetry of hadrons is spontaneously (dynamically) broken by the strong interaction. This makes light quarks massive (mass generation) and generates the light pion (Nambu-Goldstone boson). These two differently looking phenomena are understood by a single equation when observed in different ways. In this seminar, first we discuss this by using the original NJL model. Next we discuss several important properties of the pion. The interaction of the pion and matter is determined by the low energy theorems which governs scattering phenomena and important components of hadron interactions. We then discuss the exotic phenomena which are actively studied, and are expected to be caused by these pion properties.

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

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