

RCNP, OSAKA UNIVERSITY

NUCLEAR PHYSICS

EXPERIMENT SEMINAR

Title Time-like Transition Form Factors of Mesons:
Experiments / Results

Speaker Prof. Susan Schadmand
(RCNP/ Forschungszentrum Jülich)

Date and Time Jan 17th (Tur.) in 2019 13:30-15:30

Place Lecture room 1 on the 6th floor of RCNP main
building

Abstract:
Time-like Transition Form Factors of Mesons

Time-like transition form factors are determined via meson decays into final states with dileptons. Form factors are evaluated as a function of the momentum transfer which is identical to the invariant mass of the dileptons. The results provide basic knowledge of the structure of hadrons and address the validity of vector meson dominance. Transition form factors are of special interest on account of the impact on the interpretation of the $g-2$ measurements. Here, light-by-light scattering is an important factor.

The presentations contain three parts: Introduction, Experiments, and Results.

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