



Contribution ID: 24

Type: **Talk**

Combined analysis of $\pi N \rightarrow \pi N$ and $\pi N \rightarrow \pi \pi N$ in ChPT

Tuesday, 30 June 2015 15:00 (20 minutes)

In my talk, I will focus on the reactions $\pi N \rightarrow \pi N$ and $\pi N \rightarrow \pi \pi N$, which are studied at one-loop level in the frameworks of covariant and heavy baryon chiral perturbation theory. Performing combined fits to determine the relevant low-energy constants, predictions are made for various observables. In addition, first attempts to include $\Delta(1232)$ and $R(1440)$ as explicit degrees of freedom will be discussed. (PhysRevC.89.065211)

Primary author: SIEMENS, Dmitrij (Ruhr University, Bochum)

Presenter: SIEMENS, Dmitrij (Ruhr University, Bochum)

Session Classification: Parallel Session 3 - Hadron Structure & Meson-Baryon Interaction WG

Track Classification: Hadron Structure and Meson-Baryon Interaction Working Group