

Contribution ID: 108

Type: Parallel

The reaction $\pi N \rightarrow \omega N$ in a dynamical coupled-channel approach

Monday, 26 June 2023 15:40 (20 minutes)

This talk is on a refined investigation on light flavor meson-baryon scatterings, using a dynamical coupled-channel approach, i.e. the Jülich-Bonn model. The previous channel space of πN , $\pi\Delta$, σN , ρN , ηN , $K\Lambda$ and $K\Sigma$ is extended by adding the ωN final state. The spectra of N^* and Δ resonances are extracted, based on the result of a global fit to a worldwide collection of data, in the energy region from the πN threshold to center-of-mass energy $z = 2.3$ GeV (approximately 300 parameters against 9000 data points). A negative value of the ωN elastic spin-averaged scattering length has been extracted.

Collaboration

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Session Classification: Parallel session A6