Contribution ID : **61** Type : **not specified**

A practical parametrisation of line shapes of near-threshold resonances

Tuesday, 6 October 2015 16:10 (15)

A practical parametrisation for the line shapes of near threshold resonance(s) is derived in the framework of a coupled-channel model which includes an arbitrary number of elastic and inelastic channels as well as a bare pole term. The parameters have a direct relation to phenomenology and can be employed to study the nature of the near-threshold states. The resulting analytical parametrisation is therefore ideally suited to investigate the full information content provided by the measurements and to establish a link between the experimental data and their theoretical interpretation.

Presentation type

Section talk (10+5 min)

Primary author(s) : Dr. HANHART, Christoph (Forschungszentrum Juelich)

Co-author(s) : Dr. NEFEDIEV, Alexey (ITEP, MEPhI, MIPT); Mr. MATUSCHEK, Patrick (Forschungszentrum Juelich); Dr. WANG, Qian (Forschungszentrum Juelich); Dr. MIZUK, Roman (ITEP, MEPhI, MIPT); Dr. KALASHNIKOVA, Yulia (ITEP)

Presenter(s) : Dr. NEFEDIEV, Alexey (ITEP, MEPhI, MIPT)

Session Classification : Nuclear physics and particle physics - parallel III

Track Classification : Nuclear physics and particle physics