Contribution ID: **7** Type: **Talk 25'**

Hadron Physics with Julia

Tuesday 1 October 2024 14:30 (30 minutes)

This talk will explore two areas. First, case studies will demonstrate how Julia has been effectively used for complex analyses in resonance physics and computationally demanding partial-wave analysis across several projects. Second, I will introduce a recent initiative aimed at standardizing hadronic-decay model serialization. In this context, the HadronicLineshapes.jl and ThreeBodyDecays.jl packages facilitate accurate and reproducible amplitude modeling, supporting broader adoption within the hadron physics community and advancing the research frontier.

Author: Prof. MIKHASENKO, Mikhail (Ruhr Univeristy Bochum)

Presenter: Prof. MIKHASENKO, Mikhail (Ruhr Univeristy Bochum)

Session Classification: Talks