Contribution ID: **318**   Type: **Plenary talk**

Forward proton physics at LHC

Monday, 27 March 2023 10:00 (30 minutes)

Diffractive phenomena constitute a large fraction of interactions occurring in pp collisions at LHC. Because of their non-perturbative nature, the present understanding is still relatively poor and uncertain. One of the methods to study these processes is forward proton tagging. I will discuss the mechanism of the diffractive processes, recent results, and potential implications. The proton tagging method can be used for measurements of photon-induced processes, in particular, the photon–photon interactions. I will present the physics behind these processes, the experimental status and the lessons we can learn for the strong interactions and for the electroweak sector.

Participate in poster competition?

Submitted on behalf of a Collaboration?

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