Contribution ID: **310** Type: **Plenary talk**

Low-x and forward physics

Monday, 27 March 2023 11:30 (30 minutes)

"Particle production in the projectile hemisphere (forward region) introduces a kinematic asymmetry where the light-cone momenta of projectile partons are much greater than those of the partons in the target. The natural description of such processes is in terms of eikonal propagation of very energetic projectile partons through a strong color field. This approach permits the resummation of the Glauber-Mueller multiple scattering series in terms of eikonal phases, i.e. path ordered Wilson lines.

I provide an overview of some elements of the theory and its application to the phenomenology of particle production and correlations in the forward region of p+p and p+A collisions, as well as DIS, with a focus on small-x physics, strong color fields, and saturation."

Participate in poster competition?

Submitted on behalf of a Collaboration?

Presenter: DUMITRU, Adrian

Session Classification: Plenaries

Track Classification: Plenary sessions