Contribution ID: **403** Type: **Poster**

Diffractive Vector Meson production using Sartre with Machine Learning

Friday 16 December 2022 14:00 (1 hour)

We use Machine Learning with an event-generator (Sar*t*re) for
the process: e
$p \to e'\ p'\ V_M, e\ A \to e'\ A'\ V_M$.
Sar*t*re uses 3-dimensional look-up tables to generate events
in which the first two moments of the Amplitude are stored. In eA collisions the generation of these lookup tables takes many months. I will present a method, using neural networks, which reduces the computing time by up to 90%. This will be important for doing simulations in the ongoing preparations for the electron-ion collider.

Session

Heavy Ions and QCD

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Session Classification: Poster - 4