**PHYSICS**

**Scattering processes:**

Serving as the primary tool for exploration of the structure of particles, scattering processes are vital for high energy physics experiments. Beyond the scope of human vision, they offer a way to */look/* at and into the fabric of matter and also the way the matter is held together on the smallest levels. Determined by the way an experiment is set up, different properties of the scattered particles can be extracted, such as their masses, and maybe more importantly, their internal structures. One of the ways scattering processes could be categorised is by looking at final states of the scattered particles. If both of the participant particles remain intact, with only their momenta effected, the process is then said to be */elastic/*. On the other hand, one may find that one or both of the collided particles broke apart. This arguably more interesting and definitively more complicated situation is a case of an */inelastic/* scattering process.

**DIS:**

Types of DIS: ex, in, *sidis*

*kinematic variables*

**PDFs, TMDs, GPDs:**