



**Venerdì 16 Aprile**  
**Aula Wick, ore 14:30**

**Alexei Prokudin (Jefferson Laboratory)**

**[A lecture on the proton structure](#)**

The structure of the proton is described from the point of view of the transverse momentum dependent distributions of partons. A complete set of functions describing the structure of the proton is defined, and the results are discussed. I show how describing the structure of the proton from the point of view electromagnetic interactions enables us to discover its non trivial properties. In this lecture I will show the factorization properties of Semi-Inclusive Deep-Inelastic-Scattering at tree level and examine the features of distribution and fragmentation functions in a color gauge invariant definition.