

# **kT factorisation and quarkonium production in the LHC era**

## **Project 12-147 (Lansberg-Kusina)**

*Stéphane Delorme*

(IFJ Pan, Krakow, Poland)

The collaboration revolves around 3 main topics:

- Matching of high energy and collinear factorisation in quarkonium production
- Exclusive processes at Next-to-Leading Order (NLO) with 3 particles in the final states
- Heavy quark constraints on nuclear Parton Distribution Functions (nPDFs)

We review the status of the collaborations and the achievements realized during the last year. We then present the proposed scientific program for the collaboration in 2024.