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NLL soft gluon resummation for associated $t\bar{t}H$ production

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In this talk a short description of the soft gluon resummation for $pp \rightarrow t\bar{t}H$ process will be given. This is the first application of the Mellin resummation technique in a $2 \rightarrow 3$ process. The absolute threshold resummation is performed up to NLL accuracy and matched to the known NLO QCD cross-section. Results for the total cross-section at the LHC and their theoretical uncertainties will be presented.

Primary author: Mr STEBEL, Tomasz (Jagiellonian University)

Co-authors: Prof. KULESZA, Anna (University of Münster); Dr MOTYKA, Leszek (Jagiellonian University); Dr THEEUWES, Vincent (University at Buffalo)

Presenter: Mr STEBEL, Tomasz (Jagiellonian University)

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