

Meeting on Monte-Carlo comparison, 20th September 2017

> week to work together on COST STSM money. Amsterdam, November 13-17.
(Moved from 20-24 because of Whizard meeting)

start on monday, end by friday early afternoon

small workshop to present results and related topics, probably on thursday

> split proceedings shall we present our preliminary results? probably just the tables, as the plots need to be re-done anyway. Proposal: two LO plots and xsection table at LO and NLO. Discuss also the differences between the various codes, everybody shall contribute with a short description and references. Git link: <https://github.com/govoni/Split17Review>

Ask access to Pietro with your git name

Question: date for Thessaloniki workshop? probably same as for split (last week of june), but days still need to be fixed.

> aim: article/report to be put on arxiv and possibly published. Authorship can be extended to the code's authors. Mathieu will take care of preparing /formatting the report as an article, then we need to fill with the details on the various codes

Journal? JHEP probably not, EPJC tools/ physics reports / ...

Ask some senior scientist for advice

> Finalise the comparison. In Karlsruhe the definition of cuts was re-discussed, to be updated and checked in the article.

NLO QCD + PS: not all tools can do matching. Codes that do not have NLO+PS will participate to the scan cuts at LO. Define a signal and control region, extend control region at NLO.

PS-matched computation: MG5_aMC, Powheg, VBFNLO

Off-shell in table of the slides: perhaps do 'off-shell' and 'non-resonant' , or even just 'non-resonant' (all codes have off-shell)

Plans:

> finish proceedings with old numbers

> mathieu will specify the cuts

> need to re-run. Dynamical scale? $\sqrt{pt_1 pt_2}$ proposed by Mathieu

> extend the observable list