

Polarisation study

Updates before Toulouse

6th meeting, 04.09.2024

Giovanni Pelliccioli ( )
MAX-PLANCK-INSTITUT
FÜR PHYSIK

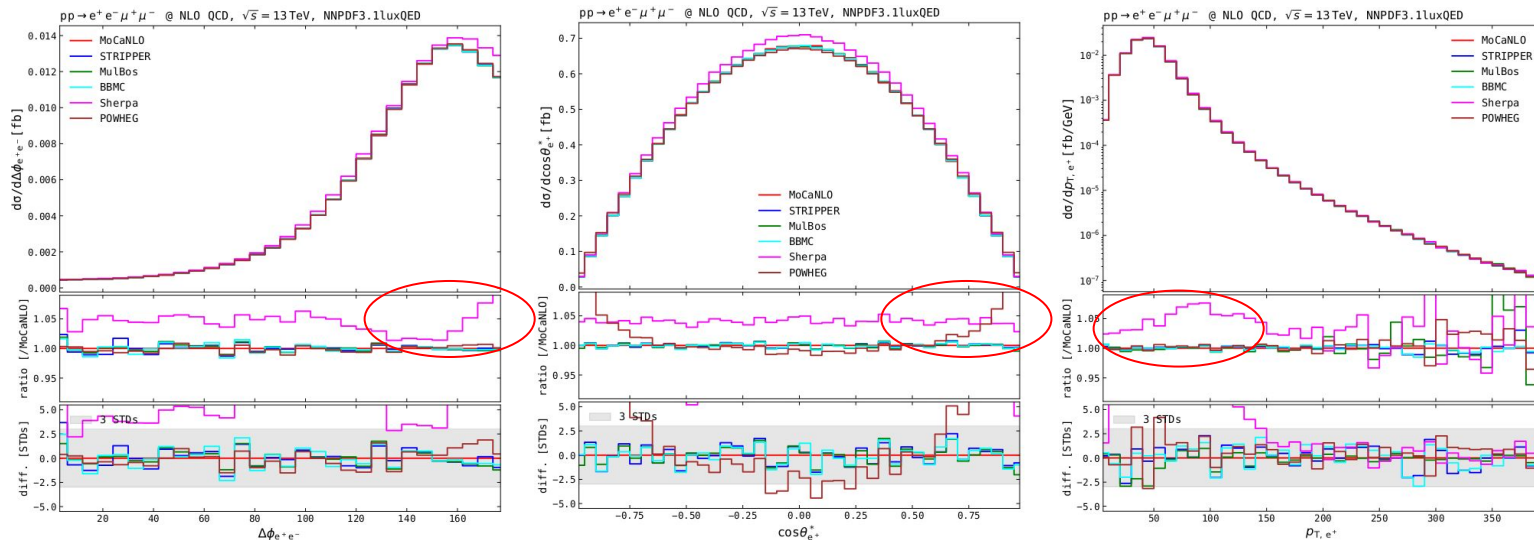
NLO QCD update

code	OS approx.	full	unpol.	LL	LT	TL	TT
MoCANLO	DPA	15.282(1)	15.158(2)	0.8899(3)	1.9313(5)	1.9243(2)	10.2095(9)
STRIPPER	DPA	15.284(3)	15.159(1)	0.8899(1)	1.9305(1)	1.9241(1)	10.2098(7)
MuLBos	DPA	—	15.1575(9)	0.88997(6)	1.9305(1)	1.9240(1)	10.2106(6)
BBMC	DPA	15.284(1)	15.158(1)	0.8898(1)	1.9306(2)	1.9240(2)	10.2085(7)
PowHEG-Box	DPA	15.280(2)	15.156(2)	0.8909(2)	1.9306(4)	1.9239(5)	10.206(1)
SHERPA	NWA	15.304(4)	15.441(5)	0.9266(5)	2.093(1)	2.041(1)	10.289(4)

→ approxNLO Sherpa results in NWA added differential discrepancies in PWG/MuLBos/Sherpa being investigated

Table 5. Integrated cross sections at NLO QCD.

LL



COMETA workshop & MBI

- polarisation workshop in Toulouse (23-24 Sept.)
approaching: 46 participants!
- this is meant (mostly) for us
- one afternoon dedicated to our comparison work
- two sessions for talks and MC presentations
- hands-on session: MG5_aMC@NLO (Richard),
POWHEG-BOX-RES (Emanuele Re), SHERPA (Frank,
Mareen)
- Several talks on polarisation in MBI (25-27 Sept.)

<https://indico.cern.ch/event/1371888/>

COMETA workshop on vector-boson polarisations

23–24 Sept 2024
Maison de la Recherche et de la Valorisation, Toulouse (France)
Europe/Paris timezone

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Timetable

<
Mon 23/09
Tue 24/09
All days
>

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Mon 23/09

09:00	Welcome & Introduction <i>Amphi 3, Maison de la Recherche et de la Valorisation, Toulouse (France)</i>	<i>Giovanni Pelliccioli et al.</i> 09:00 - 09:20
	Polarisation measurements in ATLAS <i>Amphi 3, Maison de la Recherche et de la Valorisation, Toulouse (France)</i>	<i>Max Vincent Stange</i> 09:20 - 09:55
10:00	Polarisation measurements in CMS <i>Amphi 3, Maison de la Recherche et de la Valorisation, Toulouse (France)</i>	<i>Sergio Blanco Fernandez</i> 09:55 - 10:30
	Coffee break <i>Amphi 3, Maison de la Recherche et de la Valorisation, Toulouse (France)</i>	10:30 - 10:50
11:00	Machine-learning methods for polarisation tagging	<i>Mathieu Peillen</i>