

Pheno Group Meeting Organization:

Paper List:

Anyone can add papers of their interest to the following list.

2305.11266	Optimal estimation of Dimension-8 Neutral Triple Gauge Coupling at e+e- Colliders
2307.09459	SMEFT analysis with LHeC, FCC-ee and EIC DIS pseudodata
2307.10380	A complete tree-level dictionary between simplified BSM models and SMEFT ($d \leq 7$) operators
2310.08717	Designing Observables for Measurements with Deep Learning
2212.06215	2403.05618 - OmniJet- α : The first cross-task foundation model for particle physics
2402.02914	The feasibility of ultra-relativistic bubbles in SMEFT
2404.12809	Mapping the SMEFT at High-Energy Colliders: from LEP and the (HL-)LHC to the FCC-ee

Anyone can pick up an available time slot for their turn
(The topic does not have to be a specific paper, it can be just about the project you are working on)

Date	Name	topic
2023.12.1	Guillaume	2207.01703
2023.12.8	ZeQiang	Probing τ lepton dipole moments at future Lepton

		Colliders
2023.12.15		
2024.01.12	Ramon	Like-sign WW at full NLO EW and QCD [2308.16716]
2024.01.19	Shahram	Large Nf limit and non perturbative contribution to the beta function in strongly interacting theories like QCD
2024.01.26	Matteo	2211.09144 - Evanescent operators in one-loop matching computations
2024.02.16	Simo	2311.16897 - Is the HEFT matching unique?
2024.02.23	Julien	2309.04523 - The Automation of SMEFT-assisted constraints on UV-complete models
2024.03.01		
2024.03.08		
2024.03.15	Julien	2308.06226 - Positivity and the Electroweak Hierarchy
2024.05.03	Haolin	2404.11664 - Tunneling away the relic neutrino asymmetry
2024.06.05	Matteo	2405.19083 - Triple-gauge couplings in LHC diboson production: a SMEFT view from every angle
2024.06.19	Simo	1310.1385 - Constraints on CP-violating Higgs couplings to the third generation
2024.07.10	Julien	2407.01322 - Anomalous triple gauge couplings in $ee \rightarrow 4j$: Role of polarizations, spin correlations and interference
2024.09.11	Julien	https://arxiv.org/pdf/2409.00168 - CP-odd effects at NLO in SMEFT W H and ZH production

Lecture topics

Thermal field theory

Lattice QCD

Flavour physics:

Quantum Entanglement (Yoav Afik)

Baryogenesis from CP violation

Seminars

Axiomatic quantum field theory

Functional renormalisation group

Alejo Rossia (Manchester)

Quentin Bonnefoy (Strasbourg)

Gilles Lelouche (Marseille)