

Top/QCD - Overview



Topic	Group	Comment	
ee->tt Full leptonic, Matrix element	LAL/Tohoku	Ongoing analysis	
ee->bb	LAL	PhD thesis and arxiv published, paper follows	✓ Arxiv: 1709.04289
Top mass, ee->ttγ	IFIC	Ongoing analysis	→ Pheno paper in preparation
Top mass Threshold, interpretation	MPP-MPG	Ongoing analysis	
ee->tt Anomalous couplings using EFT	IFIC	Ongoing analysis	
Top CPV couplings	IFIC/LAL/RWTH	arxiv published	✓ Arxiv: 1710.06737
ee->tt, continuum Fully hadronic	LAL, UCL,(University of Tokyo)	Resuming of analysis	Occasional meetings between LAL, UCL
Jet algorithms	IFIC	"Standing" item with several applications	
QCD e.g. alpha_s	???	Open topic	inon on today
t->ch	Warsaw	Ongoing analysis	
t->cγ	MPP	Ongoing analysis	



New top/QCD co-convener



- We will propose to the IA to elect Ryo Yonamine of Tohoku as co-convener of the Top/QCD group to replace Hitoshi Yamamoto
- Effectively Ryo is the new convener
- Election will be part of the upcoming series of elections to be launched by the IA chair



Publications



- Paper on CPV violation (IFIC, LAL, RWTH) published as arxiv:1710.06737
 submitted to EPJC
 - ¹ CP-violating top quark couplings at future linear e^+e^- colliders
 - ² W. Bernreuther¹, L. Chen¹, I. García^{a,2}, M. Perelló²,
 - ³ R. Poeschl³, F. Richard³, E. Ros², M. Vos²
 - ¹Institut f¨ur Theoretische Teilchenphysik und Kosmologie, RWTH Aachen University, 52056 Aachen, Germany
 - ²Instituto de Física Corpuscular (IFIC, UVEG/CSIC), Apartado de Correos 22085, E-46071, Valencia, Spain
 - ³Laboratoire de l'Accélérateur Linéaire (LAL), Centre Scientifique d'Orsay, 91898 Orsay Cédex, France
- Note on ee->bb (LAL) available on arxiv after review by Keisuke and Mikael Arxiv:1709.04289

Level of II D Public Note may need still II D ID

Measurement of b quark EW couplings at ILC

S. Bilokin, R. Pöschl and F. Richard.

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Paper about to be written (put into latex, final x-checks) -> Formal collaboration review Plan to finish before Xmass



Publications – top/QCD@LCWS



- Analyses mentioned in first place in talks by Jenny, Ties and Filip (thanks)
- Top mass, ee->ttγ presented by Pablo Gomiz, rather phenomeological Issue on photon reconstruction still open
- top Elw. couplings and EFT presented by Martin Perello
- Update on top elw. couplings with ME method by Yo Sato
- A word of warning on systematic effects by Bremsstrahlung and ISR by F. LeDiberder
- ee->bb formed experimental "backbone" of talk(s) by Francois Richard on RS models
- F. Simon presented update on top mass at threshold
- F. Zarnecki presented update on t-ch



Towards validation of new detector models



We are pretty bad on that!!!!!

- tentative top/QCD DQ checkers
 - R. Yonamine (LCFIplus)
 - S. Amjad (top reconstruction)
 - P. Gomis (photon reconstruction) Others?