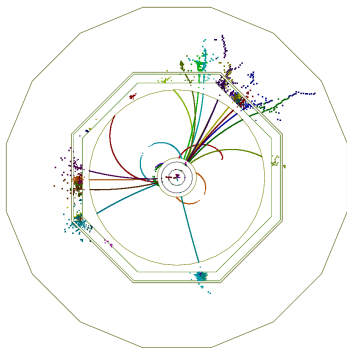


(Brief) Report of ILD Higgs/EW Group

Junping Tian and Graham W. Wilson

July 26, 2016



Summarized in K. Fujii's summary in June 29th meeting.

ongoing Higgs/EW analyses

topic	comment	contact	institute
Higgs mass	$H \rightarrow bb$	A.Ebrahimi	DESY
Higgs CP	$H \rightarrow \tau \tau$	D.Jeans	U. Tokyo
Higgs CP	$t\bar{t}H$	T.Ogawa	KEK
anomalous HVV couplings	$ZH, \nu H$	T.Ogawa	KEK
Higgs self-coupling	$HH \rightarrow bbbb$	C.Duerig	DESY
Higgs self-coupling	$HH \rightarrow bbWW^*$	M.Kurata	U. Tokyo
Higgs self-coupling	systematics	J.Tian	U. Tokyo
Higgs BRs	$H \rightarrow bb/cc/gg$	H.Ono	NDU
Higgs BRs	$H \rightarrow \mu \mu$	S.Kawada	DESY
Higgs BRs	$H \rightarrow WW^* \rightarrow 4q$	M.Panduravic	Vinca
Higgs BRs	$H \rightarrow \text{invisible}$	Y.Kato	U. Tokyo
W mass	threshold / direct	G.Wilson	U. Kansas
W mass	single W	K.Cotera	DESY
Z-pole running	ILC Parameters	G.Wilson	U. Kansas

- **ild-physics-higgs** mailing list has been setup for Higgs and Electroweak.
- Currently 18 accounts (based mainly on the ongoing analyses list) are subscribed to it. Mailing list is meant for active people. Subscribers were invited to give a talk at this meeting.
- There may be people who have been missed.
- If you would like to be subscribed then you should send an E-mail to `sympa@desy.de` with the following text in the body.

SUBSCRIBE ild-physics-higgs FirstName LastName

- 1 Planning to have a dedicated Higgs/EW group working meeting to have an overview of the status and plans of ongoing studies. Also identify important areas not covered. Suggested date Wed. 31st August.

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- 2 Next regular Software/Analysis meeting with Higgs/EW focus currently planned for 7th September.

Recent Activity

- Claude Dürig presented final results on Higgs self-coupling measurement in last ILD meeting (finishing thesis)
- Yu Kato (U. Tokyo student) started $H \rightarrow \text{invisible}$, $Z \rightarrow qq$ analysis and gave a talk at ILC summer camp 2016

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Today's Talks

- 1 Shin-ichi Kawada: $H \rightarrow \mu^+ \mu^-$ update.
- 2 Daniel Jeans: Higgs CP measurement with $H \rightarrow \tau^+ \tau^-$.
- 3 Junping Tian: New method of Higgs mass measurement. (tbc)

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Soon (Aug 10)

- 1 Mila Pandurovic: $H \rightarrow W^+ W^-$ fully hadronic in HZ.