$H \to \tau^+ \tau^-$ branching ratio study at $\sqrt{s} = 250 \text{ GeV}$ at the ILC with the ILD detector

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Abstract

We evaluated the measurement accuracy of the branching ratio of $H \to \tau^+ \tau^-$ mode at $\sqrt{s} = 250$ GeV at the ILC with the ILD detector. We assumed the Higgs mass $M_H = 120$ GeV, branching ratio $\text{Br}(H \to \tau^+ \tau^-) = 8.0$ %, beam polarization $P(e^-, e^+) = (-0.8, +0.3)$, and integrated luminosity $\int L dt = 250$ fb⁻¹. We used the LOI samples as the Monte-Carlo samples. The evaluation was performed by the ILD full detector simulation. All Standard Model backgrounds were included in this study. We obtained the accuracy $\Delta(\sigma \cdot \text{Br})/(\sigma \cdot \text{Br}) = 3.5$ %. The scaled result to $M_H = 125$ GeV is calculated to be 4.2 %.

1 Introduction

A new Higgs-like particle was discovered by the ATLAS and the CMS experiments [1, 2]. One of the next important themes for particle physics is the investigation of that new particle, especially the mass generation mechanism.

One of the important properties of Higgs boson is its branching ratio. In the Standard Model (SM) of particle physics, the Yukawa coupling constant of matter fermions with the Higgs boson is proportional to the fermion mass. Besides, if there is new physics, the coupling constant may deviate from the SM prediction. Therefore, the branching ratio is a probe for new physics.

In this note, we focus on the branching ratio of $H \to \tau^+ \tau^-$ mode. We estimate the measurement accuracy of the $H \to \tau^+ \tau^-$ branching ratio at $\sqrt{s} = 250$ GeV with the ILD full detector simulation.

2 Signal and Background

The main Higgs production process at $\sqrt{s} = 250$ GeV is the Higgs-strahlung process $(e^+e^- \rightarrow ZH)$. There are three types of signal depending on the decay of the Z boson, as shown in Figure 1. In this note, we concentrate on (A) $Z \rightarrow l^+l^-$ mode and (B) $Z \rightarrow q\bar{q}$ mode.



Figure 1: The diagrams of signal processes. (A): $Z \to l^+l^-$ mode, (B): $Z \to q\bar{q}$ mode, (C): $Z \to \nu\bar{\nu}$ mode.

The $Z \to \nu \bar{\nu}$ mode has been found to contribute negligibly to the overall precision which is dominated by the $Z \to q\bar{q}$ mode. However, at higher center-of-mass energies, the $e^+e^- \to \nu \bar{\nu}H$ mode is expected to contribute substantially due to the increase in the cross section of WW fusion process.

2.1 $Z \rightarrow l^+ l^-$ mode

In this mode, we only considered $Z \to e^+e^-$ mode and $Z \to \mu^+\mu^-$ mode as the signal process. The signal cross section of this mode is 1.9 fb. The dominant background processes are the four leptons processes $(e^+e^- \to eeee, ee\mu\mu, ee\tau\tau, \mu\mu\mu\mu, \mu\mu\tau\tau, and \tau\tau\tau\tau)$. An example diagram is shown in Figure 2-(A). Other background processes are $e^+e^- \to ZH$ reactions where the Higgs boson does not decay to tau pairs.

2.2 $Z \rightarrow q\bar{q}$ mode

The signal cross section of this mode is 19.8 fb. The possible background processes for this mode are qqqq, qqll, and $qql\nu$, which come from $e^+e^- \to W^+W^-$ or $e^+e^- \to ZZ$ reactions. An example diagram is shown in Figure 2-(B). Other possible backgrounds are $e^+e^- \to ZH$ with $Z \to \tau^+\tau^-$ and $H \to q\bar{q}$. These processes have the same final state to the signal.



Figure 2: Example diagrams of possible background. (A): $\mu\mu\tau\tau$ background for $Z \to l^+l^-$ mode, (B): qqqq background for $Z \to q\bar{q}$ mode.

Simulation Conditions 3

We performed the detector simulation with Mokka [3], a Geant4-based [4] full simulation, with the ILD_00 detector model. TAUOLA [5] was used for the tau decay simulation. The ILD_00 detector model is consists of vertex detector, time projection chamber, electromagnetic calorimeter (ECAL), hadronic calorimeter (HCAL), and yoke.

We used the signal and background samples which were generated in the context of the Letter of Intent [6]. The assumed center-of-mass energy is 250 GeV. The effects of beamstrahlung and initial state radiation are included. All Monte-Carlo sample information (process ID, process, polarization, cross section, number of events, and luminosity) are summarized in Tables 6 (page 9) and 7 (page 10). We assumed the Higgs mass $M_H = 120$ GeV, branching ratio $Br(H \to \tau^+ \tau^-) =$ 8.0 % as assumed by PYTHIA [8], integrated luminosity $\int L dt = 250$ fb⁻¹, and beam polarization $P(e^+, e^-) = (+0.3, -0.8)$. We also rescale the final result to the case of $M_H = 125$ GeV and the $H \to \tau^+ \tau^-$ branching ratio which includes the NNLO corrections [9].

4 Event Reconstruction and Event Selection

4.1 $Z \to l^+ l^-$ mode

In this mode, we take the strategy of reconstructing the Z boson first, followed by the reconstruction of the tau pairs from the Higgs decay.

We applied lepton identification at first for dividing $Z \to e^+e^-$ events and $Z \to \mu^+\mu^-$ events by using the information of energy deposit in the calorimeter (E_{ECAL} and E_{HCAL} , where E_{ECAL} is the energy deposit in ECAL, E_{HCAL} is the energy deposit in HCAL, respectively) and track momentum (P_{track}) . Figures 3 - 6 are the plots of $E_{\text{ECAL}}/(E_{\text{ECAL}}+E_{\text{HCAL}})$ and $(E_{\text{ECAL}}+E_{\text{HCAL}})/P_{\text{track}}$.





Figure 3: The plot of $E_{\text{ECAL}}/(E_{\text{ECAL}}+E_{\text{HCAL}})$ Figure 4: The plot of $E_{\text{ECAL}}/(E_{\text{ECAL}}+E_{\text{HCAL}})$ for the e in eeH samples.

for the μ in $\mu\mu H$ samples.



Figure 5: The plot of $(E_{\text{ECAL}} + E_{\text{HCAL}})/P_{\text{track}}$ for the e in eeH samples.



Figure 6: The plot of $(E_{\text{ECAL}} + E_{\text{HCAL}})/P_{\text{track}}$ for the μ in $\mu\mu H$ samples.

From these plots, we define the criteria for lepton identification. The criteria for electron identification (e-ID) are: $E_{\rm ECAL}/(E_{\rm ECAL} + E_{\rm HCAL}) > 0.92$ and $(E_{\rm ECAL} + E_{\rm HCAL})/P_{\rm track} > 0.5$. The criteria for muon identification (μ -ID) are: $E_{\rm ECAL}/(E_{\rm ECAL} + E_{\rm HCAL}) < 0.6$ and $(E_{\rm ECAL} + E_{\rm HCAL})/P_{\rm track} < 0.5$.

After the lepton identification, we applied selections to remove secondary leptons from tau decays. The strategy of this selection is to remove tracks which do not come from the interaction point (IP) by using the track energy E_{track} and impact parameter in the transverse direction d_0 and longitudinal direction z_0 with respect to the beam axis. Figures 7 - 12 show the $|d_0/\sigma(d_0)|$, $|z_0/\sigma(z_0)|$, and E_{track} plots which through the lepton identification. We defined the tau rejection cut for the objects through the e-ID: $|d_0/\sigma(d_0)| < 50$, $|z_0/\sigma(z_0)| < 5$, and $E_{\text{track}} > 10$ GeV, and for the objects through the μ -ID: $|d_0/\sigma(d_0)| < 3$, $|z_0/\sigma(z_0)| < 7$, and $E_{\text{track}} > 20$ GeV.



Figure 7: The plot of $|d_0/\sigma(d_0)|$ of e of eeH Figure 8: The plot of $|z_0/\sigma(z_0)|$ of e of eeH process. Blue, red, and black histograms show process. Blue, red, and black histograms show the e from $Z \to e^+e^-$, the e from $\tau \to e\nu\nu$, the e from $Z \to e^+e^-$, the e from $\tau \to e\nu\nu$, and the hadrons from τ decay, respectively.



Figure 9: The plot of E_{track} of e of eeH process. Figure 10: The plot of $|d_0/\sigma(d_0)|$ of μ of $\mu\mu H$ Blue, red, and black histograms show the e process. Blue, red, and black histograms show from $Z \to e^+e^-$, the e from $\tau \to e\nu\nu$, and the the μ from $Z \to \mu^+\mu^-$, the μ from $\tau \to \mu\nu\nu$, hadrons from τ decay, respectively.



Figure 11: The plot of $|z_0/\sigma(z_0)|$ of μ of $\mu\mu H$ Figure 12: The plot of E_{track} of μ of $\mu\mu H$ proprocess. Blue, red, and black histograms show cess. Blue, red, and black histograms show the the μ from $Z \to \mu^+\mu^-$, the μ from $\tau \to \mu\nu\nu$, μ from $Z \to \mu^+\mu^-$, the μ from $\tau \to \mu\nu\nu$, and and the hadrons from τ decay, respectively.

We applied the energy recovery procedure to correct for bremsstrahlung and final state radiation. In order to reconstruct the original Z boson, we have to use both the charged particles and the radiated photons. To achieve this, we defined the cone as shown in Figure 13. The fourmomenta of the neutral particles in the cone were combined with that of the lepton candidate. We defined the half-opening angle of the cone with $\cos \theta_{\rm cone} = 0.999$ and applied the recovery procedure to the lepton candidates. The results are shown in Figures 14 and 15.



Figure 13: The definition of the cone. Black arrow shows the lepton candidate. θ_{cone} is the angle of the cone.



Figure 14: The results of recovery for $Z \to$ Figure 15: The results of recovery for $Z \to e^+e^-$ mode. The horizontal axis shows the $\mu^+\mu^-$ mode. The horizontal axis shows the M_Z . Black and red histograms show the results of without recovery and with recovery sults of without recovery and with recovery sults of without recovery and with recovery $(\cos \theta_{\rm cone} = 0.999)$, respectively. $(\cos \theta_{\rm cone} = 0.999)$, respectively.

After that, we applied the tau finder to the remaining objects to reconstruct tau leptons. First of all, the objects which already used at Z boson reconstruction were rejected from tau reconstruction analysis. Then we search the highest energy track from the remaining objects, and combine the neighboring particles (which satisfies the angle with respect to the highest energy track less than 1.0 radian) with the combined mass less than 2 GeV. We regarded the combined object as a tau candidate. Then repeat these processes until there are no charged particles.

After finishing the event reconstruction, we applied the cuts for selecting signal, rejecting background. Before optimizing the cuts, we applied the preselection as follows for $Z \to e^+e^-$ mode: number of e^+ and $e^- = 1$, number of τ^+ and $\tau^- = 1$, and for $Z \to \mu^+\mu^-$ mode: number of μ^+ and $\mu^- = 1$, number of τ^+ and $\tau^- = 1$.

We applied the following cuts for $Z \to e^+e^-$ mode: number of tracks $\leq 8, 115 \text{ GeV} < E_{\text{vis}} < 230 \text{ GeV}, |\cos \theta_{\text{miss}}| < 0.99, 81 \text{ GeV} < M_Z < 113 \text{ GeV}, \cos \theta_{e^-} < 0.92, \cos \theta_{e^+} > -0.92, E_{e^-} < 90 \text{ GeV}, E_{e^+} < 90 \text{ GeV}, \cos \theta_{\tau^+\tau^-} < -0.45, \cos \theta_{\tau^-} < 0.92, \cos \theta_{\tau^+} > -0.92, \text{ and } 116 \text{ GeV} < M_{\text{recoil}} < 142 \text{ GeV}, \text{ where } E_{\text{vis}} \text{ is the visible energy}, \theta_{\text{miss}} \text{ is the missing momentum angle with respect to beam axis, } \theta_{e^-(e^+)} \text{ is the } e^-(e^+) \text{ angle with respect to beam axis, } E_{e^-(e^+)} \text{ is the } e^-(e^+) \text{ energy}, \theta_{\tau^+\tau^-} \text{ is the angle between } \tau^+ \text{ and } \tau^-, \theta_{\tau^-(\tau^+)} \text{ is the } \tau^-(\tau^+) \text{ angle with respect to beam axis, and } M_{\text{recoil}} \text{ is the recoil mass, respectively. The histograms of all cut variables are shown in Figures 17 - 28 (page 11 - 12). Table 1 shows the cut statistics of this mode. After the cuts, the <math>Z \to e^+e^-$ signal events of 108.9 and background events of 76.0 remained. The statistical significance was calculated to be $S/\sqrt{S+B} = 108.9/\sqrt{108.9 + 76.0} = 8.0\sigma$.

We applied the following cuts for $Z \to \mu^+\mu^-$ mode: number of tracks ≤ 8 , 115 GeV $< E_{\rm vis} < 235$ GeV, $|\cos\theta_{\rm miss}| < 0.98$, 72 GeV $< M_Z < 107$ GeV, $E_{e^-} < 90$ GeV, $E_{e^+} < 90$ GeV, $\cos\theta_{\tau^+\tau^-} < -0.5$, and 118 GeV $< M_{\rm recoil} < 143$ GeV. The histograms of all cut variables are shown in Figures 29 - 36 (page 13 - 14). Table 2 shows the cut statistics of this mode. For the $Z \to \mu^+\mu^-$ mode case, 131.2 signal events and 91.2 background events were remained. The significance was $S/\sqrt{S+B} = 131.2/\sqrt{131.2+91.2} = 8.8\sigma$.

	ee H	<u>10010 1.</u>	<u></u> ττΗ	ZH with	0001 <u>2</u> / 0	other	other	signi
		$\mu\mu\Pi$	1111	2/11 W1011	6677		CMLL	sigiii.
	$H \to \tau \tau$	$H \to \tau \tau$	$H \to \tau \tau$	no $ au$		4 leptons	SM bkg	
No cut	228.3	211.1	214.6	7325	2.388×10^5	$5.238 imes 10^5$	1.492×10^{10}	0.0019
preselection	171.3	0.155	1.532	47.05	1.338×10^4	3.215×10^4	1.023×10^7	0.053
# of tracks	169.4	0.155	1.532	41.56	1.316×10^4	3.205×10^4	1.009×10^7	0.053
$E_{\rm vis}$	162.3	0.155	0.912	38.36	1.068×10^4	1.039×10^4	4.761×10^6	0.074
$\cos \theta_{\rm miss}$	160.6	0.155	0.912	38.03	8719	1906	5.155×10^{5}	0.22
M_Z	148.0	0	0.017	29.09	2408	501.2	1.299×10^4	1.2
$\cos \theta_{e^{-}(e^{+})}$	133.9	0	0.009	25.40	1067	101.5	729.7	3.0
$E_{e^-(e^+)}$	133.0	0	0.009	24.93	690.3	78.70	629.7	3.4
$\cos \theta_{\tau^+ \tau^-}$	130.8	0	0	3.536	254.9	30.70	155.4	5.5
$\cos \theta_{\tau^-(\tau^+)}$	123.4	0	0	3.074	212.1	9.161	3.817	6.6
$M_{\rm recoil}$	108.9	0	0	2.474	72.35	1.134	0.034	8.0

Table 1: The cut statistics of $Z \to e^+e^-$ mode.

Table 2: The cut statistics of $Z \to \mu^+ \mu^-$ mode.

						1 1		
	$ \begin{array}{c} \mu\mu H\\ H \rightarrow \tau\tau \end{array} $	$eeH \\ H \rightarrow \tau\tau$	$\tau \tau H$ $H \rightarrow \tau \tau$	ZH with	$\mu\mu au au$	other 4 leptons	other SM bkg	signi.
	$\Pi \rightarrow \Pi$	$\Pi \rightarrow \Pi$	$\Pi \rightarrow \Pi$	110 7		4 160103	DIVI DKg	
No cut	211.1	228.3	214.6	7325	3513	7.591×10^6	1.492×10^{10}	0.0017
preselection	168.5	0	0.155	43.01	1698	7546	7732	1.3
# of tracks	167.4	0	0.155	39.65	1684	7537	7400	1.3
$E_{\rm vis}$	162.9	0	0.155	37.40	1586	2285	3713	1.9
$\cos \theta_{ m miss}$	158.6	0	0.155	36.51	1386	227.5	55.48	3.7
M_Z	153.2	0	0	32.84	1038	55.28	42.54	4.2
$E_{e^{-(e^+)}}$	153.2	0	0	32.70	738.6	42.41	36.72	4.8
$\cos \theta_{\tau^+ \tau^-}$	146.3	0	0	3.638	259.4	20.19	0.756	7.1
$M_{\rm recoil}$	131.2	0	0	2.875	82.36	5.311	0.301	8.8

4.2 $Z \rightarrow q\bar{q}$ mode

In this mode, the tau pairs are reconstructed first, followed by the di-jet reconstruction of the Z decay.

At first in this mode, we applied the tau finder to all objects to reconstruct tau leptons. In this analysis, we search the highest energy track and combine the neighboring particles, which satisfy $\cos \theta_{\rm cone} > 0.98$, with the combined mass less than 2 GeV. We regarded the combined object as a tau candidate. Then we applied the selection cuts as following: $E_{\rm tau\ candidate} > 3$ GeV, $E_{\rm cone} < 0.1E_{\rm tau\ candidate}$ with $\cos \theta_{\rm cone} = 0.9$, and rejecting 3-prong with neutral particles events. These selection cuts were tuned for minimizing misidentification of part of quark jets as tau jets. The survived tau candidate regarded as a tau jet. After the selection cuts, we applied the charge recovery to obtain better efficiency. The charged particles in tau jet which have the energy less than 2 GeV are detached one by one from smallest energy from the tau jet until satisfying the conditions as following: the charge of tau jet is +1 or -1, and the number of track(s) in tau jet is 1 or 3. The tau jet after detaching is rejected if it does not satisfy the above conditions. After the selection cuts and detaching, we repeat the above processes until there are no charged particles which have the energy greater than 2 GeV.

After the tau reconstruction, we applied the collinear approximation [10] to reconstruct $M_{\tau^+\tau^-}$. In this approximation, we assumed that the visible decay products of tau and the neutrino(s) from tau is collinear, and the contribution of missing transverse momentum is only comes from the neutrino(s) of tau decay. The invariant mass of the tau pair with the collinear approximation shown in Figure 16.



Figure 16: The plot of M_{colapp} in the unit of GeV, the invariant mass of di-tau with collinear approximation. Blue histogram shows the signal process $ZH \to qq\tau\tau$.

After that, we applied the Durham jet clustering method [11] with two jets for the remaining objects for the reconstruction of the Z boson.

After the tau and Z reconstruction, we applied the cuts to select signal process. Before optimizing cuts, we applied the preselection as follows: number of quark jets = 2, number of τ^+ and $\tau^- = 1$, number of tracks in $\tau \leq 3$, and the events which have the tracks in both $\tau = 3$ were rejected (double 3-prong cut). We applied the following cuts to reject the background: $9 \leq$ number of tracks < 50, 110 GeV < $E_{\rm vis}$ < 235 GeV, $|\cos \theta_{\rm miss}| < 0.98$, 77 GeV < $M_Z < 135$ GeV, 80 GeV < $E_Z < 135$ GeV, $\cos \theta_{\tau^+\tau^-} < -0.5$, $\log_{10} |d_0/\sigma(d_0)|(\tau^+) + \log_{10} |d_0/\sigma(d_0)|(\tau^-) > -0.7$, $\log_{10} |z_0/\sigma(z_0)|(\tau^+) + \log_{10} |z_0/\sigma(z_0)|(\tau^-) > -0.1$, $M_{\tau^+\tau^-} < 115$ GeV, $E_{\tau^+\tau^-} < 125$ GeV, 100 GeV < $M_{\rm colapp} < 170$ GeV, 100 GeV < $E_{\rm colapp} < 280$ GeV, and 112 GeV < $M_{\rm recoil} < 160$ GeV, where $M_{\tau^+\tau^-}$ and $E_{\tau^+\tau^-}$ is the invariant mass and energy without using collinear approximation, $M_{\rm colapp}$ and $E_{\rm colapp}$ is the invariant mass and energy with collinear approximation, respectively. The histograms of all cut variables are shown in Figures 37 - 49 (page 14 - 16). Table 3 shows the cut statistics of this mode. After the cuts, the signal events and background events were remained 1026 and 554.4. The statistical significance of $Z \rightarrow q\bar{q}$ mode is calculated to be $S/\sqrt{S+B} = 1026/\sqrt{1026+554.4} = 25.8\sigma$.

	qqH	ZH with	llH	$\tau \tau H$	qqqq	qqll	qq au au	$qql\nu$	$qq\tau\nu$	other	signi.
	$H \rightarrow \tau \tau$	no τ								SM bkg	
No cut	4233	4.829×10^4	5377	2596	4.038×10^6	3.563×10^{5}	4.169×10^4	2.788×10^6	1.326×10^{6}	1.494×10^{10}	0.035
preselection	1647	578.8	2761	765.4	1.230×10^{4}	6.378×10^{4}	1.161×10^{4}	1.249×10^{5}	4.948×10^{4}	2.570×10^{7}	0.32
# of tracks	1644	549.8	2680	765.4	1.230×10^{4}	6.059×10^{4}	1.146×10^{4}	1.214×10^{5}	4.806×10^{4}	5.190×10^{5}	1.9
$E_{\rm vis}$	1607	492.3	1015	744.2	4443	2.106×10^{4}	1.107×10^{4}	1.192×10^{5}	4.693×10^{4}	2.383×10^{5}	2.4
$\cos \theta_{ m miss}$	1572	474.7	860.5	725.1	2127	8315	1.021×10^{4}	1.171×10^{5}	4.415×10^{4}	5939	3.6
M_Z	1440	376.1	791.3	682.8	778.6	4987	8674	8189	3288	997.3	8.3
E_Z	1429	352.0	782.7	528.7	505.0	4797	7857	7703	3061	609.9	8.6
$\cos \theta_{\pi^+\pi^-}$	1386	46.28	442.2	255.6	191.4	1468	2001	2831	1154	475.6	13.7
d_0 sig	1338	30.29	235.1	244.3	131.4	854.9	1928	1786	1044	248.1	15.1
$z_0 sig$	1287	19.54	105.0	234.7	81.77	408.2	1845	909.9	883.4	244.6	16.6
$M_{\tau + \tau}$	1286	19.39	103.2	234.7	72.05	349.1	1837	883.5	883.4	243.9	16.7
$E_{\tau+\tau-}$	1282	19.39	103.0	234.7	72.05	324.7	1836	873.2	883.4	243.9	16.7
$M_{\rm colapp}$	1065	3.074	18.76	47.94	10.28	72.83	616.9	150.8	137.0	0.746	23.1
E_{colapp}	1062	2.454	18.01	46.72	10.28	71.27	612.1	93.05	93.52	0.454	23.7
M _{recoil}	1026	2.144	14.54	21.24	9.938	57.07	366.3	39.64	43.31	0.161	25.8

Table 3: The cut statistics of $Z \to q\bar{q}$ mode.

5 Summary

We evaluated the measurement accuracy of the branching ratio of the $H \to \tau^+ \tau^-$ mode at $\sqrt{s} = 250 \text{ GeV}$ at the ILC with ILD_00 detector model. We assumed $M_H = 120 \text{ GeV}$, $\text{Br}(H \to \tau^+ \tau^-) = 8.0 \%$, $\int L \, dt = 250 \text{ fb}^{-1}$, and the polarization $P(e^+, e^-) = (+0.3, -0.8)$. The obtained values were summarized in Table 4.

Table 4: The analysis results of $\sqrt{s} = 250 \text{ GeV}.$ mode $Z \rightarrow e^+e^ Z \rightarrow \mu^+\mu^ Z \rightarrow q\bar{q}$ significance 8.0σ 8.8σ 25.8σ

From these results, the combined significance was calculated to be $\sqrt{8.0^2 + 8.8^2 + 25.8^2} = 28.4\sigma$. Therefore, the measurement accuracy $\Delta(\sigma \cdot \text{Br})/(\sigma \cdot \text{Br})$ was calculated to be $\Delta(\sigma \cdot \text{Br})/(\sigma \cdot \text{Br}) = 1/28.4 = 3.5\%$.

The results are extrapolated to the case of $M_H = 125$ GeV by scaling the signal yields by the $e^+e^- \rightarrow ZH$ cross section and the branching ratio $\text{Br}(H \rightarrow \tau^+\tau^-) \rightarrow 6.32 \%$ [9]. We assumed that the selection efficiencies the same. The results are summarized in Table 5.

Table 5: The	results of the	e extrapola	ation to M_H	= 125 GeV.
$Z \rightarrow e^+ e^-$	$Z o \mu^+ \mu^-$	$Z \to q \bar{q}$	Combined	$\frac{\Delta(\sigma \cdot \mathrm{Br})}{\sigma \cdot \mathrm{Br}}$
6.8σ	7.4σ	21.9σ	24.1σ	$4.2 \ \%$

Table 5: The results of the extrapolation to $M_H = 125$ GeV.

A Monte-Carlo Samples

Table 6: Monte-Carlo information which used in this analysis. From the left line, the process ID, process, beam polarization (ep for positrons, em for electrons), cross section in the unit of fb, number of Monte-Carlo events, integrated luminosity in the unit of fb^{-1} , are shown. This list continues to Table 7.

04EC4 HE 0 0 0 0C0 074 0C 0 000000		
21364 aa DD ep+0.0em+0.0 360.371 36 0.033833	23584 aa e3e3dd ep+0.0em+0.0 0.073276 10 136.47	21664 ae1_e1e1e1 ep-1.0em+0.0 7275.46 7275 0.999937
21565 aa bb ep+0 0em+0 0 5218 47 521 0 0998377	23585 aa e3e3dd en+0 0em+0 0 0 096953 10 103 143	21665 ae1 e1e1e1 ep-1.0em+0.0 44860.5 44060 0.982156
21565 dd_bb cpr0,00mr0,0 5210,41 521 0,0050011	27505 dd_c3c3dd cp+0.0cm+0.0 0.007775 10 103,143	21666 ad1_010101 opt1 0omt0 0 7727 75 7727 0 999952
21066 dd_DD ep+0.0em+0.0 0200.04 020 0.0000070	23366 da_e3e3uu ept0,0emt0,0 0,037375 10 102,636	21000 del_etetet epi1,0emi0,0 7327,03 7327 0,333332
21567 aa_bb ep+0.0em+0.0 4768.41 476 0.0998236	23587 aa_e3e3dd ep+0.0em+0.0 0.019565 10 511.117	21667 ae1_e1e1e1 ep+1.0em+0.0 44910.9 44910 0.99998
21560 aa_cc ep+0.0em+0.0 25826.9 2582 0.0999733	23580 aa_e3e3e3e3 ep+0.0em+0.0 2.98239 10 3.35302	21668 ae1_e1e2e2 ep-1.0em+0.0 /859.36 /859 0.999954
21561 aa_cc ep+0.0em+0.0 158487 15848 0.0999956	23581 aa_e3e3e3e3 ep+0.0em+0.0 5.81718 10 1.71905	21669 ae1_e1e2e2 ep-1.0em+0.0 53497.7 52297 0.977556
21562 aa cc ep+0 0em+0 0 158287 15828 0 0999956	23582 aa e3e3e3e3 ep+0 0em+0 0 5 83263 10 1 71449	21670 ae1 e1e2e2 ep+1.0em+0.0 7874.12 6874 0.872986
94507 0 0 0 0 900475 90047 0 0000070	975977-7-7-7 0 0 0 0 9 0744 40 4 09477	21671 act c1c2c2 op 1;00m 0;0 1014;12 0014 0;012000
21365 aa_cc ep+0.0em+0.0 206155 20615 0.0353376	20000 aa_ebebebeb ep+0.0em+0.0 2.0/41 10 4.0210/	21071 del_etezez ep+1,0em+0,0 33033,4 32033 0,301303
23532 aa_ccbb ep+0.0em+0.0 0.010556 10 947.329	23588 aa_e3e3ss ep+0.0em+0.0 0.0/3357 10 136.32	216/2 ae1_e1e5e5 ep=1.0em+0.0 15442.9 15442 0.9999955
23533 aa_ccbb ep+0.0em+0.0 0.004464 10 2240.14	23589 aa_e3e3ss ep+0.0em+0.0 0.09712 10 102.965	21673 ae1_e1e3e3 ep-1.0em+0.0 96101.5 94701 0.985427
23534 aa ochh ep+0.0em+0.0 0.004538 10 2203.61	23590 aa e3e3ss ep+0.0em+0.0 0.097381 10 102.689	21674 ae1 e1e3e3 ep+1.0em+0.0 13483 13283 0.985167
27472 as eege ep+0 0em+0 0 0 079927 10 256 919	22591 as aZaZas ap+0 0am+0 0 0 019629 10 509 217	21675 ae1 e1e3e3 en+1 0em+0 0 96257 6 94057 0 977138
23432 da_0000 ep+0.0em+0.0 0.030323 10 236.310	23331 da_e3e355 ep+0.0em+0.0 0.013636 10 303.217	040404 -4-0-0 4 00 0 77 7407 77 0 00004E
23455 aa_cccc ep+0.0em+0.0 0.012/18 10 /86.28/	23312 aa_n1e1du ep+0.0em+0.0 0.225273 10 44.3906	21648 ae1_ein2n2 ep=1,0em+0,0 55,5465 55 0,989615
23434 aa_cccc ep+0.0em+0.0 0.01308 10 764.526	23300 aa_n1e1e1n1 ep+0.0em+0.0 0.076337 10 130.998	21649 ae1_e1n2n2 ep-1.0em+0.0 14.48/1 14 0.9663//
23528 aa_ccdd ep+0.0em+0.0 0.008955 10 1116.69	23304 aa_n1e1e2n2 ep+0.0em+0.0 0.073443 10 136.16	21650 ae1_e1n2n2 ep+1.0em+0.0 52.0695 52 0.998665
23529 aa codd ep+0.0em+0.0 0.002019 10 4952.95	23308 aa n1e1e3n3 ep+0.0em+0.0 0.073757 10 135.58	21651 ae1 e1n2n2 ep+1.0em+0.0 22.6358 22 0.971912
27570 as codd op+0.0cm+0.0.0.002071 10.4929 59	27716 as m1o1co opt0 0omt0 0 0 225277 10 dd 7000	21652 and e1n3n3 ep-1 (em+0 0 33 3836 33 0 988509
23530 dd_ccuu ep+0,0em+0,0 0,002071 10 4626,53	23316 dd_nifeisc ep+0.0em+0.0 0.223277 10 44.3036	21032 del_ethono ep 1,0en+0,0 33,3030 33 0,300303
23516 aa_ccele1 ep+0.0em+0.0 0.475002 10 21.0525	23436 aa_n1n1e2e2 ep+0.0em+0.0 0.003527 10 2835.27	21655 ae1_einono ep-1.0em+0.0 14.5055 14 0.965284
23517 aa_cce1e1 ep+0.0em+0.0 0.574236 10 17.4144	23440 aa_n1n1e3e3 ep+0.0em+0.0 0.003793 10 2636.44	21654 ae1_e1n3n3 ep+1.0em+0.0 52.1148 52 0.997797
23518 aa cce1e1 ep+0.0em+0.0 0.578067 10 17.299	23400 aa niniuu ep+0.0em+0.0 0.002035 10 4914	21655 ae1_e1n3n3 ep+1.0em+0.0 22.6013 22 0.973395
23519 as ccele1 en+0 0em+0 0 0 095982 10 104 186	27772 as n2e2du en+0 0em+0 0 0 225257 10 44 7945	21680 ae1 e1ss ep-1 0em+0 0 263 497 263 0 998114
27520 as aso222 ast0 0ert0 0 0 477077 10 21 0000	27720 as p2o2o1p1 opt0 0opt0 0 077442 10 176 162	21691 and place en-1 0em+0 0 1205 29 1205 0 999769
23320 da_00ezez ep+0.0em+0.0 0.473337 10 21.0333	23320 da_nzezetni ep+0.0em+0.0 0.073442 10 136.162	040004 -4 0 0 704 000 704 0 007700
23521 aa_cce2e2 ep+0.0em+0.0 0.578748 10 17.2787	23324 aa_n2e2e2n2 ep+0.0em+0.0 0.076285 10 131.087	Z168Z ael_eiss ep+1.0em+0.0 504.80Z 504 0.337563
23522 aa_cce2e2 ep+0.0em+0.0 0.581645 10 17.1926	23328 aa_n2e2e3n3 ep+0.0em+0.0 0.073621 10 135.831	21683 ae1_e1ss ep+1.0em+0.0 1203.83 1203 0.999311
23523 aa_cce2e2 ep+0.0em+0.0 0.095404 10 104.817	23412 aa_n2n2cc ep+0.0em+0.0 0.002028 10 4930.97	21656 ae1_e1uu ep-1.0em+0.0 2630.42 2630 0.99984
23524 aa_cce3e3 ep+0.0em+0.0 0.809322 10 12.356	23456 aa_n2n2e1e1_ep+0.0em+0.0_0.003538_10_2826.46	21657 ae1_e1uu ep-1.0em+0.0 14117.2 14117 0.999986
23525 aa cce3e3 ep+0 0em+0 0 1 07006 10 9 34527	23460 aa p2p2e3e3 ep+0 0em+0 0 0 003797 10 2633 66	21658 ae1 e1uu ep+1.0em+0.0 2696.52 2696 0 999807
22526 as coe2e2 est0 0est0 0 1 07425 10 0 20705	27752 as nZeZdu ent0 0ent0 0 0 00500 10 44 7445	21659 ae1 e1uu ept1 0emt0 0 1/199 1 1/199 0 999997
23320 aa_000000 0pr0,000000,0 1,07400 10 3,00730	23332 ad_naesuu epty.venty.v 0.22366 10 44.5143	21000 Wal_oldu cp.1.vom.v.v 14103.1 14103 V.333333
25527 aa_cceses ep+0.0em+0.0 0.198611 10 50.3497	25540 aa_n5e5e1n1 ep+0.0em+0.0 0.075677 10 135.728	21103 DD 6P+1,06m-1,0 4/306,1 33500 2,0365/
23392 aa_csdu ep+0.0em+0.0 0.644164 10 15.524	23344 aa_n3e3e2n2 ep+0.0em+0.0 0.073519 10 136.019	21190 bb ep-1.0em+1.0 27566 99800 3.6204
23393 aa_csdu ep+0.0em+0.0 0.001171 10 8539.71	23348 aa_n3e3e3n3 ep+0.0em+0.0 0.077072 10 129.749	21533 bbbb ep+1.0em-1.0 67.0078 67008 1000
23394 aa csdu ep+0.0em+0.0 0.001482 10 6747.64	23356 aa n3e3sc ep+0.0em+0.0.0.225636 10 44 3192	21534 bbbb ep-1.0em+1.0 28.7721 28772 999 997
27780 as cse1n1 ep+0 0em+0 0 0 205100 10 44 4071	23/20 as n3n3cc ept0 0emt0 0 0 000022 10 4921 00	22281 bbcsdu ent1 0em-1 0 0 029907 10000 334370
22204 ap people anto 0 anto 0 0 005400 40 44 4071	97470 = n7n7s1s1 = 0.0000000000000000000000000000000000	22285 bbcssc ap+1 0am-1 0 0 07/425 10000 280/02
20004 da_05e2n2 eptv.vemtv.v v.220196 10 44.4008	234/0 ad_honselet ep+0.0em+0.0 0.005523 10 2855.66	22200 DBCSSC 6PT1,060-1,0 0,004400 10000 200402
25588 aa_cse5n5 ep+0.0em+0.0 0.225468 10 44.3522	2548V aa_n5n5e2e2 ep+0.0em+0.0 0.003535 10 2828.85	22206 DDCSSC ep-1.Vem+1.V 0.0027/9 10000 3.59842e+06
23396 aa_cssc ep+0.0em+0.0 0.650312 10 15.3772	23416 aa_n3n3uu ep+0.0em+0.0 0.002035 10 4914	20633 bbh ep+1.0em-1.0 75.602 75602 1000
23397 aa cssc ep+0.0em+0.0 0.002852 10 3506.31	21556 aa ss ep+0.0em+0.0 1612.02 161 0.0998747	20634 bbh ep-1.0em+1.0 48.4438 48444 1000
23398 as cese en+0 0em+0 0 0 003221 10 3104 63	21557 aa ee ep+0 0em+0 0 9919 95 992 0 100001	22261 bhuddu ep+1.0em-1.0 0.033986 10000 294239
21552 ap dd opt0 0ort0 0 1611 75 161 0 0999162	21559 as as as 40 0em+0 0 9974 29 997 0 0999566	22262 bbuddu ep-1 0em+1 0 0 002776 10000 3 60231e+06
94557 44 0 0 0 0 0009 75 000 0 0000707	21550 dd_33 cpr0,00m0,0 0014,25 301 0,0355560	22265 bbudge op 1,00m 1,0 0,070041 10000 772070
21555 aa_00 ep+0.0em+0.0 3502.55 350 0.0353765	21555 da_SS ep+0.0em+0.0 15010.0 1501 0.0535555	22265 DDUUSC 80+1,080-1,0 0,030041 10000 332078
21004 aa_dd ep+0.0em+0.0 3315.20 331 0.0333672	25572 aa_uddu ep+0.0em+0.0 0.650555 10 15.5765	21163 CC ep+1,0em-1,0 44743,7 33600 2,22331
21555 aa_dd ep+0.0em+0.0 12993.6 1299 0.0999/23	23373 aa_uddu ep+0.0em+0.0 0.002865 10 3490.4	21166 cc ep=1.0em+1.0 27317.2 88600 3.24338
21536 aa_e1e1 ep+0.0em+0.0 75475.4 7547 0.09999928	23374 aa_uddu ep+0.0em+0.0 0.003197 10 3127.93	21449 ccbb ep+1.0em-1.0 123.789 99000 799.748
21537 aa e1e1 ep+0.0em+0.0 551033 107786 0.195607	23360 aa ude1n1 ep+0.0em+0.0 0.225336 10 44.3782	21450 ccbb ep-1.0em+1.0 56.6712 55671 982.351
21539 aa e1e1 ep+0.0em+0.0 1.42431e+06 137431 0.0964895	23364 aa ude2n2 ep+0.0em+0.0 0.225701 10 44.3064	21349 cccc ep+1.0em-1.0 54.3735 53774 988.974
23556 aa e1e1bb en+0 0em+0 0 0 031025 10 322 321	23368 aa ude3n3 en+0 0em+0 0 0 225594 10 44 3274	21350 cccc ep-1.0em+1.0 26.3297 26330 1000.01
23557 as e1e1bb ep+0 0em+0 0 0 028705 10 348 371	23376 aa udeo ep+0 0em+0 0 0 643852 10 15 5315	24477 ccccbb ep+1 0em-1 0 0 003422 10000 2 92227e+06
27550 as s1s1bb op+0.0 sm+0.0 0.029004 10 745 741	27777 as udeo ep+0.0em+0.0.0.0001171 10.9579 71	24478 coochb ep-1 0em+1 0 0 001756 10000 5 69476e+06
27550 aa_eleibb epi0,0emi0,0 0,02004 10 340,741	27770 as udas asto 0anto 0 0 001404 10 0779 E4	24410 CCCCDD CP 1;00H/1;0 0;001100 10000 0;004100/00
20003 ad_eleinn eb+0*060+0*0 0*00450/ 10 2042*0/	20070 da_uusu ep+0.0em+0.0 0.001404 10 0700.04	21445 ccdd ep+1.0em-1.0 120.//9 100000 827.959
23549 aa_e1e1dd ep+0.0em+0.0 0.050209 10 199.167	21548 aa_uu ep+0.0em+0.0 25709.9 2570 0.0999615	21446 ccdd ep-1.0em+1.0 55.1663 54566 989.118
23550 aa e1e1dd ep+0.0em+0.0 0.050399 10 198.417	21549 aa uu ep+0.0em+0.0 158254 31658 0.200045	24773 coddbb ep+1 0em-1 0 0 004519 10000 2 21288e+06
		F4110 000000 06.77/00 77/ ATAAAAAAA
23551 aa e1e1dd ep+0 0em+0 0 0 008768 10 1140 51	21551 aa uu ep+0 0em+0 0 208230 20823 0 1	24774 ccddbb ep-1.0em+1.0 0.002267 10000 4.41112e+06
23551 aa_e1e1dd ep+0.0em+0.0 0.008768 10 1140.51 22556 aa_e1e1e1e1 ep+0.0em+0.0 0.0662321 10 15 0982	21551 aa_uu ep+0.0em+0.0 208230 20823 0.1 23512 aa_uubb ep+0.0em+0.0 0.010578 10 945 358	24774 ccddbb ep-1.0em+1.0 0.002267 10000 4.41112e+06 21432 cce1e1 ep-1 0em-1 0 448 721 96400 214 833
23551 aa_eleidd ep+0.0em+0.0 0.008768 10 1140.51 23556 aa_eleide ep+0.0em+0.0 0.662331 10 15.0382 27577 a_elddidt ep+0.0em+0.0 0.921209 10 10 292	21551 aa_uu ep+0.0em+0.0 208230 20823 0.1 23512 aa_uubb ep+0.0em+0.0 0.010578 10 945,358 27513	24774 ccddbb ep-1.0em+1.0 0.002267 10000 4.41112e+06 21432 ccelel ep-1.0em-1.0 448.721 96400 214.833 21433 ccelel ep-1.0em-1.0 448.721 96400 214.833
23551 aa_eleldd ep+0.0em+0.0 0.008768 10 1140.51 23536 aa_elelde ep+0.0em+0.0 0.662331 10 15.0982 23537 aa_elelelel ep+0.0em+0.0 0.971629 10 10.292 23537 aa_elelelel ep+0.0em+0.0 0.97262 10 10.292	21551 aa_uu ep+0.0em+0.0 208230 20823 0.1 23512 aa_uubb ep+0.0em+0.0 0.010578 10 945,358 23513 aa_uubb ep+0.0em+0.0 0.004456 10 2244,17 23514	24774 ccddbb ep-1.0em-1.0 0.002267 10000 4.41112e+06 21432 ccele1 ep-1.0em-1.0 448.721 96400 214.833 21433 ccele1 ep-1.0em-1.0 506.805 98000 193.368 21474 ccele1 ep-1.0em-1.0 506.805 98000 193.368
23551 aa_fieldd ep+0.0em+0.0 0.008768 10 1140.51 23553 aa_fieleiel ep+0.0em+0.0 0.662331 10 15.0382 23573 aa_fieleiel ep+0.0em+0.0 0.971623 10 10.232 23538 aa_fieleiel ep+0.0em+0.0 0.97552 10 10.2509	21551 aa_uu ep+0.0em+0.0 208230 20823 0.1 23512 aa_uubb ep+0.0em+0.0 0.010578 10 945,358 23513 aa_uubb ep+0.0em+0.0 0.004456 10 2244,17 23514 aa_uubb ep+0.0em+0.0 0.004531 10 2207.02	24774 ccddbb ep-1,0em+1,0 0,002267 10000 4,44112e+06 21432 ccele1 ep-1,0em-1,0 448,721 95400 214,833 21433 ccele1 ep+1,0em-1,0 505,8000 193,368 21434 ccele1 ep-1,0em+1,0 464,383 95800 208,449
23551 aa_telad ep+0.0em+0.0 0.008768 10 1140.51 23536 aa_telalat ep+0.0em+0.0 0.662331 10 15.0982 23537 aa_telalat ep+0.0em+0.0 0.971629 10 10.292 23538 aa_telalat ep+0.0em+0.0 0.977552 10 10.2902 23538 aa_telalat ep+0.0em+0.0 0.975558 10 42.2134	21551 aa_uu ep+0.0em+0.0 208230 20823 0.1 23512 aa_uubb ep+0.0em+0.0 0.0105781 0 945.558 23513 aa_uubb ep+0.0em+0.0 0.004456 10 2244.17 23514 aa_uubb ep+0.0em+0.0 0.004531 10 2207.02 23428 aa_uubc ep+0.0em+0.0 0.078277 10 127.751	24774 coddbb ep-1.0em+1.0 0.002287 10000 4.41112e+06 21452 coelel ep-1.0em+1.0 048,721 96400 214.833 21453 coelel ep-1.0em+1.0 506,605 98000 133.368 21454 coelel ep-1.0em+1.0 448,333 56800 208.449 21455 coelel ep-1.0em+1.0 448,333 93200 221.261
23551 aa_eleidd ep+0,0em+0,0 0,008768 10 1140,51 23553 aa_eleidi ep+0,0em+0,0 0,0682331 10 15,0982 23573 aa_eleidiet ep+0,0em+0,0 0,71552 10 10,292 23538 aa_eleidiet ep+0,0em+0,0 0,37552 10 10,2509 23539 aa_eleidiet ep+0,0em+0,0 0,236658 10 42,2134 23540 aa_eleidiet ep+0,0em+0,0 1,08655 10 5,22831	21551 aa_uu ep+0.0em+0.0 208230 20823 0.1 23512 aa_uubb ep+0.0em+0.0 0.010578 10 345,358 23513 aa_uubb ep+0.0em+0.0 0.004456 10 2244.17 23514 aa_uubb ep+0.0em+0.0 0.004531 10 2207.02 23428 aa_uubc ep+0.0em+0.0 0.078277 10 127.751 23429 aa_uubc ep+0.0em+0.0 0.072352 10 355,47	24774 ccddbb ep-1.0em+1.0 0.002267 10000 4.41112e+06 21432 ccell ep-1.0em+1.0 448,721 56400 214.833 21433 ccell ep-1.0em+1.0 566,605 98000 133,368 21434 ccell ep-1.0em+1.0 464,333 96800 208,449 21435 ccell ep+1.0em+1.0 448,333 96800 208,449 21437 ccel2e ep+1.0em+1.0 453,1354 52935 936,229
23551 aa_tlaid ep+0.0em+0.0 0.008768 10 1140.51 23536 aa_tlaid ep+0.0em+0.0 0.062331 10 15.0882 23537 aa_tlaid ep+0.0em+0.0 0.971523 10 10.282 23538 aa_tlaid ep+0.0em+0.0 0.971525 10 10.282 23538 aa_tlaid ep+0.0em+0.0 0.97552 10 10.2803 23538 aa_tlaid ep+0.0em+0.0 1.97555 10 42.2134 23540 aa_tlaid ep+0.0em+0.0 1.68655 10 5.92831 23541 aa_tlaid e2e ep+0.0em+0.0 1.66655 10 5.92831	21551 aa_uu ep+0.0em+0.0 208230 20823 0.1 23512 aa_uubb ep+0.0em+0.0 0.010578 10 945.558 23513 aa_uubb ep+0.0em+0.0 0.004551 10 2244.17 23514 aa_uubb ep+0.0em+0.0 0.004551 10 2207.02 23428 aa_uucc ep+0.0em+0.0 0.07377 10 127.751 23429 aa_uucc ep+0.0em+0.0 0.0027352 10 355.47 23430 aa_uucc ep+0.0em+0.0 0.0027351 10 355.47	24774 ccddbb ep-1.0em+1.0 0.002257 10000 4.41112e+06 21452 ccele1 ep+1.0em-1.0 408,721 96400 214.833 21453 ccele1 ep+1.0em+1.0 468,383 56300 133.368 21454 ccele1 ep+1.0em+1.0 448,333 56300 208.449 21455 ccele1 ep+1.0em+1.0 448,333 93200 221.261 21457 cce2e2 ep+1.0em+1.0 23,345 42353 5100.02
23551 aa_eleidd ep+0,0em+0,0 0,008768 10 1140,51 23556 aa_eleidi ep+0,0em+0,0 0,0682331 10 15,0982 23573 aa_eleidiet ep+0,0em+0,0 0,97552 10 10,292 23538 aa_eleidiet ep+0,0em+0,0 0,97552 10 10,2509 23539 aa_eleidiet ep+0,0em+0,0 0,236858 10 42,2134 23540 aa_eleidie2e ep+0,0em+0,0 1,66655 10 5,82831 23541 aa_eleidie2e ep+0,0em+0,0 3,07145 20 6,51158 23543 aa_eleidie2e	21551 aa_uu ep+0.0em+0.0 208230 20823 0.1 23512 aa_uubb ep+0.0em+0.0 0.010578 10 345.558 23513 aa_uubb ep+0.0em+0.0 0.004456 10 2244.17 23514 aa_uubb ep+0.0em+0.0 0.004531 10 2207.02 23428 aa_uubc ep+0.0em+0.0 0.073571 0 127.751 23429 aa_uubc ep+0.0em+0.0 0.0073572 10 355.47 23430 aa_uubc ep+0.0em+0.0 0.0027351 10 355.47 23430 aa_uubc ep+0.0em+0.0 0.0027351 20 355.47	24774 ccddbb ep-1.0em+1.0 0.002267 10000 4.41112e+06 21452 ccele1 ep-1.0em+1.0 448,721 56400 214.833 21433 ccele1 ep-1.0em+1.0 560,605 98000 133.368 21434 ccele1 ep-1.0em+1.0 464,333 96800 208.449 21455 ccele1 ep+1.0em+1.0 448,333 96800 208.449 21457 ccele2 ep+1.0em+1.0 453,1354 52353 966,229 21438 ccele2 ep+1.0em+1.0 53,1354 52353 966,229 21438 ccele2 ep+1.0em+1.0 52,7485 42545 996,201
23551 aa_tleld ep+0.0em+0.0 0.008768 10 1140.51 23553 aa_tleld! ep+0.0em+0.0 0.068231 01 5,0882 23577 aa_tleld! ep+0.0em+0.0 0.07152 10 10.282 23538 aa_tleld! ep+0.0em+0.0 0.07152 10 10.282 23538 aa_tleld! ep+0.0em+0.0 0.07552 10 10.280 23541 aa_tleld! ep+0.0em+0.0 1.68655 10 4.2194 23544 aa_tlelde? ep+0.0em+0.0 1.68655 10 5,92831 23544 aa_tleld? ep+0.0em+0.0 0.071522 10 10.2931 23544 aa_tleld?	21551 aa_uu ep+0,0em+0,0 208230 20823 0.1 23512 aa_uubb ep+0,0em+0,0 0.0105781 0.945,538 23513 aa_uubb ep+0,0em+0,0 0.004551 10 2244,17 23514 aa_uubb ep+0,0em+0,0 0.004551 10 2207,02 23428 aa_uucc ep+0,0em+0,0 0.007377 10 127,751 23429 aa_uucc ep+0,0em+0,0 0.0073731 10 355,47 23430 aa_uucc ep+0,0em+0,0 0.047311 10 355,47 23450 aa_uucc ep+0,0em+0,0 0.047311 10 356,025 23456 aa_uue1at ep+0,0em+0,0 0.0475112 10 21,0035	24774 ccddbb ep-1.0em+1.0 0.002287 10000 4.41112e+06 21452 ccelf ep-1.0em+1.0 0.002287 10000 4.41112e+06 21453 ccelf ep+1.0em+1.0 566,005 30000 133,368 21453 ccelf ep+1.0em+1.0 464,333 568000 208,449 21455 ccelf ep+1.0em+1.0 448,333 93000 212,261 21457 cce2e2 ep+1.0em+1.0 453,1354 52353 936,229 21458 cce2e2 ep+1.0em+1.0 29,3345 2353 1000,02 21441 cce2e3 ep+1.0em+1.0 29,3345 2545 936,201
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23551 aa_slaldd esr0,0em+0.0 0.003758 10 1140,51 23553 aa_slaldlaf esr0,0em+0.0 0.662331 10 15,0982 2357 aa_slaldlaf esr0,0em+0.0 0.67552 10 10,2802 23533 aa_slaldlaf esr0,0em+0.0 0.37552 10 10,2802 23534 aa_slaldlaf esr0,0em+0.0 0.37552 10 10,2802 23534 aa_slaldlaf esr0,0em+0.0 0.37552 10 10,2803 23544 aa_slaldlaf esr0,0em+0.0 0.37552 10 10,2803 23544 aa_slaldlaf esr0,0em+0.0 0.371522 10 10,2931 23546 aa_slaldlaf esr0,0em+0.0 0.47241 0 3,17733 23546 aa_slaldlaf esr0,0em+0.0 0.45251 01 12,354 23555 aa_slals esr0,0em+0.0 0.225,887 23555 aa_slals esr0,0em+0.0 0.056043 10 138,637 23556 aa_slals esr0,0em+0.0 0.056044 10 1142,33 21544 aa_slals esr0,0em+0.0 0.056064 0939393 215	21551 auu ep+0.0em+0.0 208230 208230 208230 2512 auubb ep+0.0em+0.0 0.010781 945.558 25313 auubb ep+0.0em+0.0 0.004456 10 2207.02 23514 auubc ep+0.0em+0.0 0.004781 10 2207.02 23428 auucc ep+0.0em+0.0 0.007372 10 127.751 23429 auucc ep+0.0em+0.0 0.0027352 10 355.47 23430 auucc ep+0.0em+0.0 0.0475112 10 21.0035 23498 auuele1 ep+0.0em+0.0 0.047512 10 27.0054 23500 a_uuele2 ep+0.0em+0.0 0.0575787 10 17.3374 25004 a_uuele3e ep+0.0em+0.0 0.057587 10 12.3581 23504 a_uuele3e ep+0.0em+0.0 0.0575787 10 3.24971 23505 a_uuele3e ep+0.0em+0.0 0.057511 10 3.24971 23505 a_uuele3e ep+0.0em+0.0 0.039325 10 5.27511 23504 </td <td>2474 coddbb ep-1.0em-1.0 0.002257 10000 4.41112e+06 21452 coeld ep-1.0em-1.0 506,005 98000 133.368 21453 coeld ep-1.0em-1.0 506,005 98000 133.368 21453 coeld ep-1.0em-1.0 448,333 98000 221.261 21455 coeld ep-1.0em-1.0 448,333 93000 221.261 21455 coeld ep-1.0em-1.0 483,333 93000 221.261 21458 coeld ep-1.0em-1.0 23,1354 52353 936,223 21458 coeld ep-1.0em-1.0 23,1354 52353 936,223 21458 coeld ep-1.0em-1.0 23,1354 2543 936,201 21442 coeld ep-1.0em-1.0 23,1454 2543 936,201 21442 coeld ep-1.0em-1.0 23,151 939,397 20609 coh ep-1.0em-1.0 73,7598 37880 1000,01 21309 csdu ep-1.0em-1.0 53,231 93231 1000 20610 coh ep-1.0em-1.0 53,354 59334 935,319 21237 csell ep-1.0em-1.0 53,354 59334 935,319 21238 csell ep-1.0em-1.0 2466,63 92400 37,4688 21238 csell ep-1.0em-1.0 2466, 05 92400 37,4688 21238 csell ep-1.0em-1.0 2466, 05 92400 37,4688 21238 csell ep-1.0em-1.0 2466,53 92400 37,4688 21238 csell ep-1.0em-1.0 20,868,33 100000 44,0841 2130 cse202 ep-1.0em-1.0 20,856,5 93000 15,0335 21314 csso ep-1.0em-1.0 2086,5 93000 75,035 21314 csso ep-1.0em-1.0 12,648 73000 703,075 21181 dd ep-1.0em-1.0 42055,6 100000 2,0849 21182 dd ep-1.0em-1.0 42056,5 100000 2,0849 21182 dd ep-1.0em-1.0 42056,5 100000 2,0849 21182 dd ep-1.0em-1.0 22,774 52</td>	2474 coddbb ep-1.0em-1.0 0.002257 10000 4.41112e+06 21452 coeld ep-1.0em-1.0 506,005 98000 133.368 21453 coeld ep-1.0em-1.0 506,005 98000 133.368 21453 coeld ep-1.0em-1.0 448,333 98000 221.261 21455 coeld ep-1.0em-1.0 448,333 93000 221.261 21455 coeld ep-1.0em-1.0 483,333 93000 221.261 21458 coeld ep-1.0em-1.0 23,1354 52353 936,223 21458 coeld ep-1.0em-1.0 23,1354 52353 936,223 21458 coeld ep-1.0em-1.0 23,1354 2543 936,201 21442 coeld ep-1.0em-1.0 23,1454 2543 936,201 21442 coeld ep-1.0em-1.0 23,151 939,397 20609 coh ep-1.0em-1.0 73,7598 37880 1000,01 21309 csdu ep-1.0em-1.0 53,231 93231 1000 20610 coh ep-1.0em-1.0 53,354 59334 935,319 21237 csell ep-1.0em-1.0 53,354 59334 935,319 21238 csell ep-1.0em-1.0 2466,63 92400 37,4688 21238 csell ep-1.0em-1.0 2466, 05 92400 37,4688 21238 csell ep-1.0em-1.0 2466, 05 92400 37,4688 21238 csell ep-1.0em-1.0 2466,53 92400 37,4688 21238 csell ep-1.0em-1.0 20,868,33 100000 44,0841 2130 cse202 ep-1.0em-1.0 20,856,5 93000 15,0335 21314 csso ep-1.0em-1.0 2086,5 93000 75,035 21314 csso ep-1.0em-1.0 12,648 73000 703,075 21181 dd ep-1.0em-1.0 42055,6 100000 2,0849 21182 dd ep-1.0em-1.0 42056,5 100000 2,0849 21182 dd ep-1.0em-1.0 42056,5 100000 2,0849 21182 dd ep-1.0em-1.0 22,774 52
23551 aa_dialad ep+0,0em+0,0 0,008758 10 1140,51 23556 aa_dialad ep+0,0em+0,0 0,971523 10 15,0982 23537 aa_dialad ep+0,0em+0,0 0,971523 10 15,0982 23538 aa_dialad ep+0,0em+0,0 0,971523 10 12,250 23538 aa_dialad ep+0,0em+0,0 0,971523 10 12,250 23541 aa_dialade ep+0,0em+0,0 1,05855 10 5,2281 23544 aa_dialade ep+0,0em+0,0 1,071522 10 10,2331 23544 aa_dialade ep+0,0em+0,0 1,071522 10 10,2331 23544 aa_dialade ep+0,0em+0,0 1,071522 10 10,2331 23546 aa_dialade ep+0,0em+0,0 1,071522 10 10,2331 23546 aa_dialade ep+0,0em+0,0 6,44529 10 1,53358 23546 aa_dialade ep+0,0em+0,0 6,44529 10 1,53358 23546 aa_dialade ep+0,0em+0,0 6,44529 10 1,53354 23546 aa_dialade ep+0,0em+0,0 0,25537 10 3,00557 23556 aa_dials ep+0,0em+0,0 0,050028 10 139,888 23554 aa_dials ep+0,0em+0,0 0,050028 10 139,888 23554 aa_dials ep+0,0em+0,0 0,7552 1,7553 0,0939372 21541 aa_d222 ep+0,0em+0,0 0,7552 10,53039372 21541 aa_d222 ep+0,0em+0,0 0,05684 55066 0,093933 21545 aa_d222 ep+0,0em+0,0 0,02839 10 321,8647 23577 aa_d222bb ep+0,0em+0,0 0,02839 10 321,864 23577 aa_d222bb ep+0,0em+0,0 0,02839 10 321,864 23578 aa_d222bb ep+0,0em+0,0 0,02839 10 346,105 23578 aa_d222bb ep+0,0em+0,0 0,02838 10 246,105 23578 aa_d222bb ep+0,0em+0,0 0,004878 10 224,825 23588 aa_d222d ep+0,0em+0,0 0,004878 10 224,825 23588 aa_d2	21551 auu ep+0.0em+0.0 200230 20230 202312 2511 auubb ep+0.0em+0.0 0.016781 945.558 25313 auubb ep+0.0em+0.0 0.016781 945.558 25314 auubc ep+0.0em+0.0 0.0078277 10 127.751 23429 aauubc ep+0.0em+0.0 0.0078277 10 127.751 23429 aauubc ep+0.0em+0.0 0.027351 10 355.47 23430 aa_uubc ep+0.0em+0.0 0.027351 10 355.47 23430 aa_uubc ep+0.0em+0.0 0.027351 10 355.47 23458 aa_uubcl ep+0.0em+0.0 0.027351 10 355.47 23503 aa_uubcl ep+0.0em+0.0 0.027351 10 10.5247 23500 aa_uubcl ep+0.0em+0.0 0.035527 10 10.4561 23505 aa_uubcle2e ep+0.0em+0.0 0.035257 10 14.968 23505 aa_uubcle3e ep+0.0em+0.0 0.035257 10 14.968 23505 aa_uuble3e ep+0.0em+0.0 0.035257 10 14.968 23505 aa	2474 coddb ep-1.0em-1.0 448,721 96400 214.833 21452 codel ep-1.0em-1.0 506,005 98000 193,368 21454 codel ep-1.0em-1.0 448,721 96400 214.833 21455 codel ep-1.0em-1.0 448,721 96400 214.833 21455 codel ep-1.0em-1.0 448,733 98000 221,261 21455 codel ep-1.0em-1.0 483,733 98000 221,261 21458 code2 ep-1.0em-1.0 23,354 5235 986,229 21458 code2 ep-1.0em-1.0 23,354 5235 986,229 21428 code2 ep-1.0em-1.0 23,748 52548 986,201 21442 code3 ep-1.0em-1.0 53,748 52548 986,201 21442 code3 ep-1.0em-1.0 53,748 52549 986,201 2130 codu ep-1.0em-1.0 53,7378 3788 9800 100,01 2130 codu ep-1.0em-1.0 53,7378 37854 935,319 21298 code1 ep-1.0em-1.0 59,334 45534 93,319 21298 code1 ep-1.0em-1.0 053,354 5534 933,319 21298 code1 ep-1.0em-1.0 053,354 5534 933,319 21298 code1 ep-1.0em-1.0 053,934 5554 935,319 2130 codu ep-1.0em-1.0 053,934 5554 935,319 2130 code ep-1.0em-1.0 053,954 9554 935,319 2130 code ep-1.0em-1.0 053,954 9500 100,02 2130 code ep-1.0em-1.0 053,954 9500 100,02 2130 code ep-1.0em-1.0 058,55 980001 5,0355 21314 code ep-1.0em-1.0 125,124 95000 15,0355 21314 code ep-1.0em-1.0 125,124 9500 15,035 21314 code ep-1.0em-1.0 125,124 9500 15,0355 21314 code ep-1.0em-1.0 125,124 9500 953,139 2152 cdbb ep-1.0em-1.0 125,124 9500 953,139 2152 cdbb ep-1.0em-1.0 135,124 9500 953,93 939,392
23551 a_slidd ep+0.0em+0.0 0.003758 10 1140.51 23553 a_slidlid ep+0.0em+0.0 0.662331 10 15.0982 23573 a_slidlid ep+0.0em+0.0 0.67552 10 10.2802 23538 a_slidlid ep+0.0em+0.0 0.97552 10 10.2802 23539 a_slidlid ep+0.0em+0.0 0.97552 10 10.2802 23539 a_slidlid ep+0.0em+0.0 0.97552 10 10.2803 23541 a_slidlid ep+0.0em+0.0 0.97552 10 10.2803 23541 a_slidlide p+0.0em+0.0 0.971522 10 10.2803 23544 a_slidlide p+0.0em+0.0 0.971522 10 10.2931 23544 a_slidlide p+0.0em+0.0 0.971522 10 10.2931 23544 a_slidlide p+0.0em+0.0 0.971522 10 10.2931 23546 a_slidlide p+0.0em+0.0 0.17733 23546 a_slidlide p+0.0em+0.0 0.15354 23557 a_slidlise p+0.0em+0.0 0.15354 23555 a_slidlise p+0.0em+0.0 0.056043 10 138,637 23556 a_slidlise p+0.0em+0.0 0.056054 10 137,093931 21544 a_slidlise p+0.0em+0.0 0.056054 10 138,637 23555 a_slidlise p+0.0e	21551 auu ep+0.0em+0.0 2002300 2002300 2002300 <t< td=""><td>2474 coddbb ep-1.0em-1.0 0.002257 10000 4.41112e+06 21432 coelel ep-1.0em-1.0 448,721 96400 214.833 21433 coelel ep-1.0em-1.0 506,005 98000 133.368 21434 coelel ep-1.0em-1.0 448,333 9300 221.261 21435 coelel ep-1.0em-1.0 448,333 9300 221.261 21435 coelel ep-1.0em-1.0 483,333 9300 221.261 21438 coele2 ep-1.0em-1.0 23,1354 52353 936,223 21438 coele2 ep-1.0em-1.0 23,1354 52353 936,223 21442 coele3 ep-1.0em-1.0 23,1354 2543 936,201 21442 coele3 ep-1.0em-1.0 23,1354 9380 1000,02 21441 coele3 ep-1.0em-1.0 251,354 9380 1000,01 21309 csdu ep+1.0em-1.0 73,7398 37880 1000,01 21309 csdu ep+1.0em-1.0 59,334 59534 933,319 21237 csell ep+1.0em-1.0 543,57 99800 15,2809 21310 csdu ep-1.0em+1.0 59,334 59534 933,319 21238 csell ep+1.0em-1.0 2465,67 92400 37,4688 21238 csell ep+1.0em-1.0 2465,67 92400 37,4688 21238 csell ep+1.0em-1.0 2465,83 10000 44,0841 21230 csed2 ep+1.0em-1.0 20,865,2087 1000,02 21305 csell ep+1.0em-1.0 20,855, 93800 15,0335 2134 cssc ep+1.0em-1.0 2036,5 93200 73,075 21418 dd ep+1.0em-1.0 12,164 73020 703,075 21418 dd ep+1.0em-1.0 12,164 73020 733,075 21418 dd ep+1.0em-1.0 12,164 7300 733,075 21418 dd ep+1.0em-1.0 57,124 9020 55,7393 21522 ddbb ep+1.0em-1.0 57,055 68665 934,035 21522 ddbb ep+1.0em-1.0 57,055 68665 934,035 21522 ddbb ep+1.0em-1.0 57,054 9303 53,9393 932 21522 ddbb ep+1.0em-1.0 57,054 9303 53,9393 932 21523 ddbb ep+1.0em-1.0 57,054 9303 53,9393 932 21523 ddbb ep+1.0em-1.0 57,054 9303 53,9393 932 21522 ddbb ep+1.0em-1.0 57,054 9303 55309 939,932 21523 ddbb ep+1.0em-1.0 57,054 9303 55,9393</td></t<>	2474 coddbb ep-1.0em-1.0 0.002257 10000 4.41112e+06 21432 coelel ep-1.0em-1.0 448,721 96400 214.833 21433 coelel ep-1.0em-1.0 506,005 98000 133.368 21434 coelel ep-1.0em-1.0 448,333 9300 221.261 21435 coelel ep-1.0em-1.0 448,333 9300 221.261 21435 coelel ep-1.0em-1.0 483,333 9300 221.261 21438 coele2 ep-1.0em-1.0 23,1354 52353 936,223 21438 coele2 ep-1.0em-1.0 23,1354 52353 936,223 21442 coele3 ep-1.0em-1.0 23,1354 2543 936,201 21442 coele3 ep-1.0em-1.0 23,1354 9380 1000,02 21441 coele3 ep-1.0em-1.0 251,354 9380 1000,01 21309 csdu ep+1.0em-1.0 73,7398 37880 1000,01 21309 csdu ep+1.0em-1.0 59,334 59534 933,319 21237 csell ep+1.0em-1.0 543,57 99800 15,2809 21310 csdu ep-1.0em+1.0 59,334 59534 933,319 21238 csell ep+1.0em-1.0 2465,67 92400 37,4688 21238 csell ep+1.0em-1.0 2465,67 92400 37,4688 21238 csell ep+1.0em-1.0 2465,83 10000 44,0841 21230 csed2 ep+1.0em-1.0 20,865,2087 1000,02 21305 csell ep+1.0em-1.0 20,855, 93800 15,0335 2134 cssc ep+1.0em-1.0 2036,5 93200 73,075 21418 dd ep+1.0em-1.0 12,164 73020 703,075 21418 dd ep+1.0em-1.0 12,164 73020 733,075 21418 dd ep+1.0em-1.0 12,164 7300 733,075 21418 dd ep+1.0em-1.0 57,124 9020 55,7393 21522 ddbb ep+1.0em-1.0 57,055 68665 934,035 21522 ddbb ep+1.0em-1.0 57,055 68665 934,035 21522 ddbb ep+1.0em-1.0 57,054 9303 53,9393 932 21522 ddbb ep+1.0em-1.0 57,054 9303 53,9393 932 21523 ddbb ep+1.0em-1.0 57,054 9303 53,9393 932 21523 ddbb ep+1.0em-1.0 57,054 9303 53,9393 932 21522 ddbb ep+1.0em-1.0 57,054 9303 55309 939,932 21523 ddbb ep+1.0em-1.0 57,054 9303 55,9393
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<td>21551 auu ep+0,0em+0,0 208230 208230 208230 25312 auubb ep+0,0em+0,0 0,016781 945,558 25313 auubb ep+0,0em+0,0 0,016781 945,558 25314 auubb ep+0,0em+0,0 0,016781 1945,758 25414 auucc ep+0,0em+0,0 0,0078277 10 127,751 24293 auucc ep+0,0em+0,0 0,027351 10 358,025 23498 auucc1e ep+0,0em+0,0 0,078271 11 127,2054 23498 aauucc1e ep+0,0em+0,0 0,078271 10 17,2054 23503 aauuc22e ep+0,0em+0,0 0,0745371 10 17,2054 23503 aa_uuc22e ep+0,0em+0,0 0,0745787 10 17,3574 23503 aa_uuc22e ep+0,0em+0,0 0,075517 10 12,3581 23504 aa_uuc2e3e ep+0,0em+0,0 0,075517 10 3,3047 23505 aa_uuc2e3e ep+0,0em+0,0 0,0355110 12,3581 23505 aa_uuc2e3e3 ep+</td> <td>2474 coddbb ep-1.0em-1.0 0.002257 10000 4.41112e+06 21432 coelei ep-1.0em-1.0 448,721 96400 214.833 21433 coelei ep-1.0em-1.0 506,005 98000 133.368 21434 coelei ep-1.0em-1.0 448,333 9500 221.261 21435 coelei ep-1.0em-1.0 448,333 9300 221.261 21435 coelei ep-1.0em-1.0 483,333 9300 021.261 21438 coelei ep-1.0em-1.0 23,1354 52335 1000,02 21441 coelei ep-1.0em-1.0 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23551 a_elalation a_end 0.0008758 10 1140.51 23535 a_elalation ep+0.0em+0.0 0.62331 10 15.0982 23538 a_elalation ep+0.0em+0.0 0.57352 10 10.223 23538 a_elalation ep+0.0em+0.0 0.37352 10 10.223 23538 a_elalation ep+0.0em+0.0 0.37352 10 10.233 23541 a_elalation ep+0.0em+0.0 0.23558 142.2134 23541 a_elalaticatication ep+0.0em+0.0 0.371522 10 10.2331 23544 a_elalaticaticatication ep+0.0em+0.0 0.371522 10 10.2331 23544 a_elalaticaticatication ep+0.0em+0.0 0.371522 10 10.2331 23546 a_elalaticaticatication ep+0.0em+0.0 0.47424 10 13.534 23546 a_elalaticatication ep+0.0em+0.0 0.47441 11 13.534 23546 a_elalation ep+0.0em+0.0 0.55306 0.9393931 21541 a_elacitication ep+0.0em+0.0 0.026741 11 142.33 <	21551 auu ep+0.0em+0.0 200230 200240 200430 200430 200430 200430 200430 200430 200430 200430 200430 200430 200230 200330	2474 codbb ep-1.0em-1.0 448,721 96400 214,433 21433 coele1 ep-1.0em-1.0 906,005 98000 133,368 21434 coele1 ep-1.0em-1.0 906,005 98000 133,368 21435 coele1 ep-1.0em-1.0 448,333 98200 221,261 21435 coele1 ep-1.0em-1.0 448,333 98200 221,261 21435 coele1 ep-1.0em-1.0 448,333 98200 221,261 21438 coele2 ep-1.0em-1.0 23,1354 52335 1000,02 21441 coele3 ep-1.0em-1.0 23,1354 52345 936,203 21442 coele3 ep-1.0em-1.0 23,1354 52345 936,203 21442 coele3 ep-1.0em-1.0 23,1354 9354 935,319 20609 coh ep-1.0em-1.0 73,7393 73780 1000,01 21300 cdu ep-1.0em-1.0 553,334 9534 933,319 21299 cseln1 ep-1.0em-1.0 593,334 9534 933,319 21299 cseln1 ep-1.0em-1.0 053,934 9534 933,319 21299 cseln1 ep-1.0em-1.0 053,934 9534 933,319 21299 cseln1 ep-1.0em-1.0 2268,339 10000 24,084 21299 cseln1 ep-1.0em-1.0 2268,339 10000 44,0841 21300 cse2n2 ep-1.0em-1.0 202,883 20867 1000 21313 csscn ep-1.0em-1.0 20365, 939200 73,075 21314 cssc ep-1.0em-1.0 02365, 939200 73,075 21314 csec ep-1.0em-1.0 02365, 939200 73,075 21314 cdse ep-1.0em-1.0 02365, 939200 73,075 21314 cdse ep-1.0em-1.0 02365, 939200 75,3075 21314 ddse ep-1.0em-1.0 053,054 95909 993,932 21513 dddd ep-1.0em-1.0 053,054 95900 993,932 21514 dddb ep-1.0em-1.0 053,854 95900 993,932 21514 ddbe ep-1.0em-1.0 054,888 75890 1000 20626 ddh ep-1.0em-1.0 028,866 2468 24487 2497 3 dddbb ep-1.0em-1.0 028,666 2468 24,487 2497 3 dddbb ep-1.0em-1.0 028,686 2468 154,487 2497 3 dddbb ep-1.0em-1.0 028,880 2468 1000 24526 ds ep-1.0em-1.0 028,880 2468 1000 24526 ds ep-1.0em-1.0 028,880 2468 1000 24526 ds ep-1.0em-1.0 028,880 2468 1000 24556 ds ep-1.0em-1.0 028,880 2468 1000 24557 ds ep-1.0em-1.0 028,880 2468 1000 24558 ds ep-1.0em-1.0 028,880 2468 154,487 2497 3 dddbb ep-1.0em-1.0 028,880 2468
23551 a=_diald a=_opt (b=wt) (b) (b) (c)	21551 auu ep+0.0em+0.0 200230 2244.13 23300 2244.13 2244.13 2244.13 224530 23400 20000 0.00000 0.00000 0.00000 22352 2355.47 234500 234500 234000 0.004751110 0356.025 23458 223458 223458 223458 223458 223458 223458 223458 223458 223458 223454 223454 223454 223454 223544 223547 223557 233447 235547	2474 coddb ep-1.0em+1.0 0.002267 10000 4.41112±+06 21432 codel ep-1.0em+1.0 448,721 96400 214.833 21434 codel ep-1.0em+1.0 448,733 98000 193,368 21435 codel ep+1.0em+1.0 448,333 98000 221.261 21435 codel ep+1.0em+1.0 448,333 98000 221.261 21437 code2 ep+1.0em+1.0 23,334 52353 1000,02 21441 code3 ep+1.0em+1.0 23,334 52353 1000,02 21441 code3 ep+1.0em+1.0 23,1344 52363 986,201 21442 code3 ep+1.0em+1.0 23,1341 52353 1000,02 21441 code3 ep+1.0em+1.0 23,1341 52353 1000,02 21441 code3 ep+1.0em+1.0 23,1341 52353 1000,02 21442 code3 ep+1.0em+1.0 23,1341 5354 9390 1000,01 21300 csdu ep+1.0em+1.0 53,2344 53534 933,319 21300 csdu ep+1.0em+1.0 53,3344 53534 933,319 21298 cseln1 ep+1.0em+1.0 53,3344 53534 933,319 21298 cseln1 ep+1.0em+1.0 23,9341 53534 933,319 21300 csdu ep+1.0em+1.0 20,3261 11282 550,846 21299 cseln1 ep+1.0em+1.0 20,3261 11282 550,846 21299 cseln1 ep+1.0em+1.0 2268,2100000 44,125 21300 cse23 ep+1.0em+1.0 28665 20867 1000 21313 csscu ep+1.0em+1.0 28065 6,100000 2,00049 21181 d cssc ep+1.0em+1.0 112,2484 73000 73,075 21314 cssc ep+1.0em+1.0 137,2142 9000 627,799 21522 ddbb ep+1.0em+1.0 28065 29800 52,0057 21181 dd ep+1.0em+1.0 28065 29800 93,935 21314 cssc ep+1.0em+1.0 137,2142 9000 627,799 21522 ddbb ep+1.0em+1.0 28066 29461 854,487 24937 ddddb ep+1.0em+1.0 28066 24661 854,487 24937 ddddb ep+1.0em+1.0 7,01682 45580 10000 5,15751e+06 20655 ddh ep+1.0em+1.0 28,0868 24052 21000 20626 ddh ep+1.0em+1.0 7,06886 5980 1000 20626 ddh ep+1.0em+1.0 7,0747 51748 856,102 24573 ddddb ep+1.0em+1.0 7,4745 51748 856,102 24573 ddddb ep+1.0em+1.0 7,07475 51748 856,102 24581 ddsse ep+1.0em+1.0 7,07475 51748 856,102 24581 ddsse ep+1.0em+1.0 7,07475 51748 856,102 24581 ddsse ep+1.0em+1.0 7,000,0455,1000
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23551 a_slide ep+0	21551 auu ep+0,0em+0,0 208230 208230 214 2512 auubb ep+0,0em+0,0 0,016781 945,558 25131 auubb ep+0,0em+0,0 0,016781 945,558 25141 auubb ep+0,0em+0,0 0,0078277 10 127,751 24293 a_uucc ep+0,0em+0,0 0,027351 10 258,67 24493 auucc ep+0,0em+0,0 0,027351 10 358,025 23498 aa_uuccl=1 ep+0,0em+0,0 0,035115 10 17,2064 23500 aa_uuccl=2 ep+0,0em+0,0 0,0474537 10 17,2374 23503 aa_uuccl=2 ep+0,0em+0,0 0,0474537 10 17,3374 23503 aa_uuccl=3 ep+0,0em+0,0 0,0474537 10 17,3374 23503 aa_uuccl=3 ep+0,0em+0,0 0,0474537 10 17,3474 23503 aa_uucl=3 ep+0,0em+0,0 0,037551 10 3,34047 23503 aa_uucl=3 ep+0,0em+0,0 0,03251 10 3,24731 23503	2474 coddbb ep-1.0em-1.0 048,721 96400 214.431 21433 coeld ep-1.0em-1.0 906,003 98000 133.368 21434 coeld ep-1.0em-1.0 906,003 98000 133.368 21435 coeld ep-1.0em-1.0 448,333 98000 212.261 21435 coeld ep-1.0em-1.0 448,333 9300 221.261 21435 coeld ep-1.0em-1.0 482,333 9300 221.261 21436 coeld ep-1.0em-1.0 23,1354 52363 936,223 21438 coeld ep-1.0em-1.0 23,1354 52363 936,223 21438 coeld ep-1.0em-1.0 23,1354 52543 936,201 21442 coeld ep-1.0em-1.0 23,1354 52543 936,201 21442 coeld ep-1.0em-1.0 37,4783 87808 1000,02 21441 coeld ep-1.0em-1.0 37,4783 87860 100,01 21300 codu ep-1.0em-1.0 59,334 4953 493,319 2130 codu ep-1.0em-1.0 59,334 4953 493,319 21297 cseln1 ep-1.0em-1.0 59,334 4953 493,319 21293 cseln1 ep-1.0em-1.0 058,344 9353 493,319 21293 cseln1 ep-1.0em-1.0 058,348 4933 493,319 21293 cseln1 ep-1.0em-1.0 058,348 4933 493,319 21293 cseln1 ep-1.0em-1.0 02466,05 92400 37,4688 21298 cseln1 ep-1.0em-1.0 02466,35 10000 44,084 21293 cseln1 ep-1.0em-1.0 02466,51 20007 75,075 2134 cssc ep-1.0em-1.0 02865, 93900 75,0355 2134 cssc ep-1.0em-1.0 02836,5 93900 75,0355 2134 dodd ep-1.0em-1.0 02836,5 93900 75,739 21522 dobb ep-1.0em-1.0 058,056 58900 99,932 21513 dddd ep-1.0em-1.0 058,056 58900 99,932 21513 ddd ep-1.0em-1.0 72,8885 7839 0000 20626 ddh ep-1.0em-1.0 72,8885 7839 0000 20626 ddh ep-1.0em-1.0 72,8885 7839 0000 20626 ddh ep-1.0em-1.0 73,7475 51748 836,102 20626 ddh ep-1.0em-1.0 73,7478 71548 836,102 24937 dddb ep-1.0em-1.0 73,7478 7148 836,102 24937 ddsb ep-1.0em-1.0 73,7478 7148 836,102 24932 ddsb ep-1.0em-1.0 73,7478 71648 856,102 24932 ddsb ep-1.0em-1.0 73,7478 71648 856,102 24932 ddsb ep-1.0em-1.0 73,7478 71640 00,00103 21119 ela.ela ep-0.0em-1.0 73,7478 71640 06,7402 257706 257106 21119 ela.ela ep-0.0em-1.0 73,7478 71654 058393 21119 ela.e
23551 a.a.it.idd =pr0,0em+0,0 0.008758 10 1140, 51 23556 a.a.it.idd =pr0,0em+0,0 0.57523 10 15,0982 2357 aa.a.it.idd =pr0,0em+0,0 0.57522 10 10,2503 23538 aa.a.it.idd =pr0,0em+0,0 0.57522 10 10,2503 23538 aa.a.it.idd =pr0,0em+0,0 0.57552 10 10,2503 23541 aa.a.it.idd =pr0,0em+0,0 0.57552 10 10,2503 23541 aa.a.it.idd =pr0,0em+0,0 0.71522 10 10,2531 23544 aa.a.it.idd =pr0,0em+0,0 0.71522 10 10,2331 23544 aa.a.it.idd =pr0,0em+0,0 0.71422 10 1,7331 23544 aa.a.it.idd =pr0,0em+0,0 0.474241 10 1,5334 23546 aa.a.it.idd =s pr0,0em+0,0 0.474241 10 1,5334 23556 aa.a.it.ids =pr0,0em+0,0 0.55064 50660 0.9939372 21541 aa.a.it.iss =pr0,0em+0,0 0.55064 550610 9939372 21541 aa.a.it.iss =pr0,0em+0,0 0.551645 55180 0.9939372 21541 aa.a.it.iss =pr	21551 auu ep+0.0em+0.0 200230 20230 20243.1 2511 auubb ep+0.0em+0.0 0.0107810 945.558 2513 auubb ep+0.0em+0.0 0.0078271 10 127.751 2342 auubc ep+0.0em+0.0 0.0078277 10 127.751 2342 auubc ep+0.0em+0.0 0.0078277 10 127.751 2342 auubc ep+0.0em+0.0 0.027351 10 355.47 23430 auubc ep+0.0em+0.0 0.027351 10 355.47 23430 auubc ep+0.0em+0.0 0.027351 10 355.47 23430 auubc ep+0.0em+0.0 0.027351 10 355.47 23498 auubcl ep+0.0em+0.0 0.0475112 10 21.0035 23498 a_uuel el ep+0.0em+0.0 0.0350515 10 10.5,247 23500 a_uue2e2 ep+0.0em+0.0 0.0575787 10 17.3374 23505 a_uue2e3e ep+0.0em+0.0 1.07551 10 3.24047 2505 a_uue2e3e ep+0.0em+0.0 1.07551 10 3.24047 2506 a_uue2e3e ep+0.0em+0.0 0.002381 10 17.658 2507 a_uue2e3e ep+0.0em+0.0 0.002381 10 12.3531 2506 a_uue3e	2474 coddb ep-1.0em-1.0 448 721 96400 214.833 21433 codel ep-1.0em-1.0 506,005 98000 133,568 21434 codel ep-1.0em-1.0 448 721 96400 214.833 21435 codel ep-1.0em-1.0 448 721 96400 214.833 21435 codel ep-1.0em-1.0 448,733 985000 221.261 21435 codel ep-1.0em-1.0 448,733 955000 221.261 21435 code2 ep-1.0em-1.0 23,354 5235 956,229 21438 code2 ep-1.0em-1.0 23,354 5235 956,229 21442 code3 ep-1.0em-1.0 25,374 5254 956,201 21442 code3 ep-1.0em-1.0 25,374 9554 953,319 20609 coh ep-1.0em-1.0 73,7378 37890 1000,01 21309 codu ep-1.0em-1.0 53,234 5953 935,319 2130 codu ep-1.0em-1.0 59,334 4953 937 30000 2130 codu ep-1.0em-1.0 59,334 4953 943,319 21298 codul ep-1.0em-1.0 053,354 9534 933,319 21299 codul ep-1.0em-1.0 053,354 9534 933,319 21299 codul ep-1.0em-1.0 053,854 9534 933,319 21299 codul ep-1.0em-1.0 053,854 9534 933,319 21299 codul ep-1.0em-1.0 053,854 9534 933,319 2130 code cp-1.0em-1.0 053,854 9500 000,01 21305 code3 ep-1.0em-1.0 028,856 20897 1000,02 21313 costo ep-1.0em-1.0 058,55 59000 15,0335 21314 costo ep-1.0em-1.0 058,50 93000 15,0335 21314 costo ep-1.0em-1.0 058,056 50300 2,0543 21321 dobt ep-1.0em-1.0 058,056 5030 3,53319 21522 ddbb ep-1.0em-1.0 058,056 5030 3,53319 21521 ddbb ep-1.0em-1.0 058,056 5030 3,53319 21521 ddbb ep-1.0em-1.0 05,0365 5930 939,939 21513 dddd ep-1.0em-1.0 05,0365 5930 150,0355 21514 dddd ep-1.0em-1.0 05,0365 50300 3,53619 21512 ddbb ep-1.0em-1.0 05,0365 50300 3,53619 21514 ddbd ep-1.0em-1.0 05,0365 50300 3,5560 503,056 21514 ddsdb ep-1.0em-1.0 05,8380 7580 9393 939,932 21513 ddbd ep-1.0em-1.0 05,8380 7580 9369 399,392 21514 ddbb ep-1.0em-1.0 05,8380 7580 1000 20626 ddh ep-1.0em-1.0 05,8380 7580 1000
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23551 a.a.izidd epr0,0emr0,0 0.008758 10 1140,51 23556 a.a.izidzi epr0,0emr0,0 0.57523 10 15,0982 2357 aa.a.izizizi epr0,0emr0,0 0.57522 10 10,220 2358 aa.a.izizizi epr0,0emr0,0 0.07552 10 10,220 2358 aa.a.izizizi epr0,0emr0,0 0.07552 10 10,220 2358 aa.a.izizizi epr0,0emr0,0 0.07552 10 10,230 2354 aa.a.izizizi epr0,0emr0,0 0.071522 10 10,2331 2354 aa.a.izizizi eze opr0,0emr0,0 0.071522 10 10,2331 2354 aa.a.izizizi eze opr0,0emr0,0 0.371522 10 10,2331 2354 aa.a.izizizi eze opr0,0emr0,0 6.49529 10 1,5354 2354 aa.a.izizi eze opr0,0emr0,0 0.15334 138,637 23554 aa.a.izis epr0,0emr0,0 0.55064 10 1142,33 23564 aa.izis epr0,0emr0,0 7553,0.9989372 1541 aa.e222 epr0,0emr0,0 7553,0.9989372 21541 aa.e222 epr0,0emr0,0 0.55064 5068 0,0999391 12577 aa.e222b epr0,0emr0,0	21551 auu ep+0.0em+0.0 200230 2244 13 2340 aa_uubcc ep+0.0em+0.0 0.0027351 10 237.7.02 23428 aa_uubcc ep+0.0em+0.0 0.0027351 10 355.47 23430 aa_uubcc ep+0.0em+0.0 0.0027351 10 355.47 23450 aa_uuscl ep+0.0em+0.0 0.0027351 10 355.47 23430 aa_uuscl ep+0.0em+0.0 0.002351 10 10.0235 23498 aa_uuscl ep+0.0em+0.0 0.002352 10 10.0755 10 35.47 23504 aa_uuse2e ep+0.0em+0.0 0.002557 10 10.3531 23504 aa_uuse2e ep+0.0em+0.0 0.002557 10 10.4968 23504 aa_uuse2e ep+0.0em+0.0 0.002557 10 10.36447 23504 aa_uuse2e ep+0.0em+0.0 10.07551 10.32,3721 255.3731 25505 aa_uuse3e3 ep+0.0em+0.0 0.0025527 10 10.49683 25506 233323	2474 codbb ep-1.0em-1.0 448.721 96400 214.833 21435 coelel ep-1.0em-1.0 506,005 98000 133,368 21434 coelel ep-1.0em-1.0 448,721 96400 214.833 21435 coelel ep-1.0em-1.0 448,721 96400 214.833 21435 coelel ep-1.0em-1.0 448,333 98000 221,261 21435 coelel ep-1.0em-1.0 448,333 98000 221,261 21435 coelel ep-1.0em-1.0 428,333 98000 221,261 21438 coele2 ep-1.0em-1.0 23,1534 52363 986,203 21442 coele3 ep-1.0em-1.0 23,1534 52363 986,203 21442 coele3 ep-1.0em-1.0 23,1534 52363 986,203 21442 coele3 ep-1.0em-1.0 23,1544 5248 986,201 21442 coele3 ep-1.0em-1.0 251,353 59231 1000 20610 ch ep-1.0em-1.0 73,72783 78800 1000,01 21300 csdu ep-1.0em-1.0 59,3344 9534 933,319 21298 cselni ep-1.0em-1.0 59,3344 9534 933,319 21298 cselni ep-1.0em-1.0 059,354 4953,4933,319 21299 cselni ep-1.0em-1.0 059,354 4953,4933,319 21298 cselni ep-1.0em-1.0 059,354 4953,4933,319 21298 cselni ep-1.0em-1.0 059,354 4953,4933,319 21298 cselni ep-1.0em-1.0 228,812 100000 44,125 21301 cse302 ep-1.0em-1.0 028,852 100000 44,125 21305 cse303 ep-1.0em-1.0 0286,51 300001 28,102 21314 cssc ep-1.0em-1.0 128,548 79300 703,075 21314 dsep-1.0em-1.0 137,124 90200 73,075 21318 ddd ep-1.0em-1.0 053,056 59300 39,393 21513 dddd ep-1.0em-1.0 05,8389 75309 1003 20625 ddh ep-1.0em-1.0 05,8085 59300 703,075 21318 ddd ep-1.0em-1.0 05,8085 59300 7,739 21514 dddb ep-1.0em-1.0 05,8085 59300 03,5381 21527 ddbb ep-1.0em-1.0 07,8288 75390 1000 20625 ddh ep-1.0em-1.0 07,8288 7530 03939 393 21517 dd55 ep-1.0
23551 aii.i.i.i.i.i.i.i.i.i.i.i.i.i.i.i.i.i.	21551 auu ep+0.0em+0.0 200230 2244.1 213 23430 au.uube ep+0.0em+0.0 0.0078277 10 127.751 22429 aa_uucc ep+0.0em+0.0 0.0078277 10 127.751 23429 aa_uucc ep+0.0em+0.0 0.0078271 10 127.751 23430 234305 234305 234305 234305 234305 234305 234305 234305 234305 234305 234305 21.0035 23530 23542 23542 23542 23542 23542 23542 23542 23542 23542 23542 23542 23542 23542 23542 23551 23542 23542 23542 23551 23542 23542 23542 23551 23542 23542 23531 23553 23553 23553 23553 23553 23553 23553 23553 23553 23553 23553 23553 <t< td=""><td>2474 coddbb ep-1.0em-1.0 048,721 96400 214.431 21433 coeld ep-1.0em-1.0 906,003 98000 133.368 21434 coeld ep-1.0em-1.0 906,003 98000 133.368 21435 coeld ep-1.0em-1.0 448,333 95000 212.261 21435 coeld ep-1.0em-1.0 448,333 93000 212.261 21435 coeld ep-1.0em-1.0 23,1354 5235 936,223 21438 coeld ep-1.0em-1.0 23,1354 5235 936,223 21438 coeld ep-1.0em-1.0 23,1354 5235 936,223 21438 coeld ep-1.0em-1.0 23,1354 5235 936,223 21442 coeld ep-1.0em-1.0 23,1354 5254 936,201 21442 coeld ep-1.0em-1.0 37,4788 37800 1000,02 21441 coeld ep-1.0em-1.0 37,4788 37800 1000,01 21300 cdu ep-1.0em-1.0 59,334 4953 4933,219 2130 cdu ep-1.0em-1.0 59,344 953 4933,219 2130 cdu ep-1.0em-1.0 02466,05 92400 37,4688 21298 cseln1 ep-1.0em-1.0 2468,05 92400 37,4688 21298 cseln1 ep-1.0em-1.0 2468,05 92400 37,4688 21298 cseln1 ep-1.0em-1.0 02468,05 92007 30,76 2130 cse202 ep-1.0em-1.0 02868 20061 228,122 21301 cse202 ep-1.0em-1.0 2086,5 93900 15,0335 2134 cssc ep-1.0em-1.0 0286,5 93900 35,3319 21522 ddbb ep-1.0em-1.0 0286,5 93900 35,3319 21522 ddbb ep-1.0em-1.0 038,5 93900 35,3319 21522 ddbb ep-1.0em-1.0 048,552 49500 939,932 21513 dddd ep+1.0em-1.0 048,552 49500 939,932 21513 dddd ep+1.0em-1.0 7,068 66866 934,036 21514 dds ep-1.0em-1.0 04,0552 4952 939,936 21517 dds ep-1.0em-1.0 07,068 66868 934,036 21514 dds ep-1.0em-1.0 07,068 66868 934,036 21514 dds ep-1.0em-1.0 07,068 66868 934,036 21514 dds ep-1.0em-1.0 07,0748 5148 936,102 24937 dddbd ep+1.0em-1.0 07,0748 5148 936,102 24937 ddsb ep+1.0em-1.0 07,0748 5148 936,102 24937 ddsb ep+1.0em-1.0 07,0748 5148 936,102 24937 ddsb ep+1.0em-1.0 07,0748 5148 636,102 24932 ddsb ep+1.0em-1.0 07,0748 2164 896,102 24932 ddsb ep+1.0em-1.0 07,02187 10000 4,55524 626 21117 ela_ela_ep+0.0em-1.0 5,3307476 259140 0,0498887 21118 ela_ela_ep+0.0em-1.0 5,33074760</td></t<>	2474 coddbb ep-1.0em-1.0 048,721 96400 214.431 21433 coeld ep-1.0em-1.0 906,003 98000 133.368 21434 coeld ep-1.0em-1.0 906,003 98000 133.368 21435 coeld ep-1.0em-1.0 448,333 95000 212.261 21435 coeld ep-1.0em-1.0 448,333 93000 212.261 21435 coeld ep-1.0em-1.0 23,1354 5235 936,223 21438 coeld ep-1.0em-1.0 23,1354 5235 936,223 21438 coeld ep-1.0em-1.0 23,1354 5235 936,223 21438 coeld ep-1.0em-1.0 23,1354 5235 936,223 21442 coeld ep-1.0em-1.0 23,1354 5254 936,201 21442 coeld ep-1.0em-1.0 37,4788 37800 1000,02 21441 coeld ep-1.0em-1.0 37,4788 37800 1000,01 21300 cdu ep-1.0em-1.0 59,334 4953 4933,219 2130 cdu ep-1.0em-1.0 59,344 953 4933,219 2130 cdu ep-1.0em-1.0 02466,05 92400 37,4688 21298 cseln1 ep-1.0em-1.0 2468,05 92400 37,4688 21298 cseln1 ep-1.0em-1.0 2468,05 92400 37,4688 21298 cseln1 ep-1.0em-1.0 02468,05 92007 30,76 2130 cse202 ep-1.0em-1.0 02868 20061 228,122 21301 cse202 ep-1.0em-1.0 2086,5 93900 15,0335 2134 cssc ep-1.0em-1.0 0286,5 93900 35,3319 21522 ddbb ep-1.0em-1.0 0286,5 93900 35,3319 21522 ddbb ep-1.0em-1.0 038,5 93900 35,3319 21522 ddbb ep-1.0em-1.0 048,552 49500 939,932 21513 dddd ep+1.0em-1.0 048,552 49500 939,932 21513 dddd ep+1.0em-1.0 7,068 66866 934,036 21514 dds ep-1.0em-1.0 04,0552 4952 939,936 21517 dds ep-1.0em-1.0 07,068 66868 934,036 21514 dds ep-1.0em-1.0 07,068 66868 934,036 21514 dds ep-1.0em-1.0 07,068 66868 934,036 21514 dds ep-1.0em-1.0 07,0748 5148 936,102 24937 dddbd ep+1.0em-1.0 07,0748 5148 936,102 24937 ddsb ep+1.0em-1.0 07,0748 5148 936,102 24937 ddsb ep+1.0em-1.0 07,0748 5148 936,102 24937 ddsb ep+1.0em-1.0 07,0748 5148 636,102 24932 ddsb ep+1.0em-1.0 07,0748 2164 896,102 24932 ddsb ep+1.0em-1.0 07,02187 10000 4,55524 626 21117 ela_ela_ep+0.0em-1.0 5,3307476 259140 0,0498887 21118 ela_ela_ep+0.0em-1.0 5,33074760

23594 aa_e3e3bb ep+0.0em+0.0 0.05558 10 179.921 23595 aa_e3e3bb ep+0.0em+0.0 0.009567 10 1045.26

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Table 7: Monte-Carlo information which used in this analysis. From the left line, the process ID, process, beam polarization (ep for positrons, em for electrons), cross section in the unit of fb, number of Monte-Carlo events, integrated luminosity in the unit of fb^{-1} , are shown. This list is series of Table 6.

21600 e1a_e1cc ep+0.0em-1.0 2632.03 2000 0.742934 21601 e1a_e1cc ep+0.0em-1.0 14238.4 14238 0.999972 21602 e1a_e1cc ep+0.0em+1.0 1263.76 2630 0.999711 21603 e1a_e1cc ep+0.0em+1.0 14172 14172 1 21616 e1a_e1dd ep+0.0em-1.0 1305.228 305 0.999253 21617 e1a_e1dd ep+0.0em+1.0 1207.73 1207 0.999336 21618 e1a_e1dd ep+0.0em+1.0 1210.08 1210 0.99934 21604 e1a_e1de1e1 ep+0.0em+1.0 7311.26 7311 0.993964 21605 e1a_e1de1e1 ep+0.0em+1.0 7380.72 7282.0 .939332 21607 e1a_e1de1e1 ep+0.0em+1.0 7380.73 7880 0.939951 21609 e1a_e1de1e1 ep+0.0em+1.0 7880.53 7880 0.939951 21609 e1a_e1de2e ep+0.0em+1.0 7880.53 7880 0.939951 21610 e1a_e1de2e ep+0.0em+1.0 7880.54 7889 0.939951 21610 e1a_e1de2e ep+0.0em+1.0 7860.54 7869 0.939916 21611 e1a_e1de2e ep+0.0em+1.0 7860.54 7869 0.939916 21611 e1a_e1de2e ep+0.0em+1.0 53755.8 50665 0.940468 21612 e1a_e1de3e ap+0.0em+1.0 53765.8 50665 0.940468 21612 e1a_e1de3e ap+0.0em+1.0 5360.7 95607 0.989649 21615 e1a_e1de3e ap+0.0em+1.0 12607 95607 0.989649 21615 e1a_e1de3e ap+0.0em+1.0 33.307 33 0.939788 21615 e1a_e1de3e ap+0.0em+1.0 33.307 33 0.939788 21539 e1a_e1de3e ap+0.0em+1.0 13.3573 33 0.939788 21539 e1a_e1de3e ap+0.0em+1.0 13.3573 33 0.939788 21539 e1a_e1de3e ap+0.0em+1.0 123.821 24 1.00129 21532 e1a_e1de3e ap+0.0em+1.0 123.821 24 1.00129 21539 e1a_e1de3e ap+0.0em+1.0 123.327 33 0.939983 21620 e1a_e1de3e ap+0.0em+1.0 123.812 14 0.961895 21539 e1a_e1de3e ap+0.0em+1.0 123.812 14 0.961895 21539 e1a_e1de3e ap+0.0em+1.0 123.327 33 0.939783 21620 e1a_e1de3e ap+0.0em+1.0 123.812 10.961895 21539 e1a_e1de3e ap+0.0em+1.0 123.822 263 0.939877 21623 e1a_e1de3e ap+0.0em+1.0 123.327 263 0.939973 21620 e1a_e1de3e ap+0.0em+1.0 123.327 263 0.939873 21620 e1a_e1de3e ap+0.0em+1.0 123.327 263 0.939973 21639 e1a_e1de3e ap+0.0em+1.0 123.322 263 0.939873 21639 e1a_e1de3e ap+0.0em+1.0 12 21466 eleide ep-1.0em+1.0 85, 2261 84126 985, 335 21467 eleidd ep-1.0em+1.0 73,442 73442 1000 21452 eleielei ep-1.0em+1.0 932,446 92200 97,8287 21453 eleielei ep-1.0em+1.0 935,595 91400 91,8044 21454 eleielei ep-1.0em+1.0 932,404 97400 99,1445 21455 eleielei ep+1.0em+1.0 943,634 97400 90,172 21458 eleieleze ep-1.0em+1.0 1073,64 100000 93,1411 21457 eleieleze ep+1.0em+1.0 1068,16 100000 93,1411 21457 eleieleze ep+1.0em+1.0 1068,17 99000 92,6125 21460 eleieleze ep+1.0em+1.0 1068,97 99000 92,6125 21460 eleieleze ep+1.0em+1.0 1068,97 99000 92,6125 21460 eleieleze ep+1.0em+1.0 1068,97 99000 92,6125 21462 eleieleze ep+1.0em+1.0 941,685 98800 104,318 20612 eleih ep-1.0em+1.0 944,774 99000 104,345 20453 eleieleze ap+1.0em+1.0 948,774 99000 104,345 20453 eleieleze ap+1.0em+1.0 948,774 99000 104,345 20453 eleise ap-1.0em+1.0 944,935 10000 15504 20615 eleih ep+1.0em+1.0 17,3913 17892 1000,01 20614 eleih ep-1.0em+1.0 944,774 10000 15504 20615 eleise sp-1.0em+1.0 9477 10000 15492,4 21458 eleise sp-1.0em+1.0 73,152 71752 990,862 21473 eleise sp-1.0em+1.0 123,972 100000 806,634 21470 eleise sp-1.0em+1.0 125,573 5070 936,459 21433 ele2bb ep+1.0em+1.0 125,573 5070 936,459 21434 ele2bb ep+1.0em+1.0 125,573 28779 977,234 21458 ele2de ep+1.0em+1.0 125,573 28779 972,934 21458 ele2de ep+1.0em+1.0 14,4511 11431 999,931 21478 ele2e2e2 ep+1.0em+1.0 14,4511 11431 999,931 21478 ele2e2e2 ep+1.0em+1.0 13,163 2020 1362,24 21481 ele2e3e3 ep+1.0em+1.0 14,6585 14658 939,365 20617 ele2e3e3 ep+1.0em+1.0 13,160 23980 933,363 21777 ele3e3 ep+1.0em+1.0 13,160 23980 933,363 21778 ele3e3 ep+1.0em+1.0 13,160 23980 933,363 21778 ele3e3 ep+1.0em+1.0 14,4585 14658 939,395 21439 ele2e3e3 ep+1.0em+1.0 13,163 29800 93,363 21510 ele3bb ep+1.0em+1.0 57,6073 939,935 21439 ele2e3e3 ep+1.0em+1.0 30,1803 29800 933,363 21510 ele3bb ep+1.0em+1.0 57,6073 939,935 21498 ele3e3 ep+1.0em+1.0 7,2454 10000 1382,24 21498 ele3e3 ep+1.0em+1.0 7,2454 10000 1382,24 21498 ele3e3 ep+1.0em+1.0 7,2454 9800 5,77647 21509 ele3bb ep+1.0em+1.0 7,2454 9800 5,77647 21509 ele3bb ep+1.0em 21466 ele1dd ep-1.0em+1.0 85.3261 84126 985.935 21467 ele1dd ep+1.0em+1.0 73.442 73442 1000 21452 elelelel ep-1.0em-1.0 942.464 92200 97.8287

21216 nleielnl ep-1.0em-1.0 43.5841 43384 995.409 21217 nleielnl ep-1.0em-1.0 939.093 98800 105.207 21218 nleielnl ep-1.0em+1.0 27.4575 26858 978.166 21219 nleielnl ep-1.0em+1.0 27.4575 26858 978.166 21221 nleie2n2 ep-1.0em-1.0 82.52 98000 119.143 21222 nleie2n2 ep-1.0em-1.0 7.96688 10000 1409.07 21224 nleie3n3 ep-1.0em-1.0 7.96688 10000 1409.07 21225 nleie3n3 ep-1.0em-1.0 28.759 28477 993.029 21225 nleie3n3 ep-1.0em-1.0 82.729 97800 118.728 21222 nleie3n3 ep-1.0em-1.0 82.729 97800 118.728 21225 nleie3n3 ep-1.0em-1.0 82.729 97800 118.728 21225 nleie3n3 ep-1.0em-1.0 28.729 97800 140.793 21232 nleisc ep-1.0em+1.0 27.028 10000 1407.89 21232 nleisc ep-1.0em+1.0 27.028 10000 1407.89 21252 nleisc ep-1.0em+1.0 27.028 10000 1407.89 21252 nleisc ep-1.0em+1.0 27.1028 10000 1407.89 21252 nlias ep-1.0em+1.0 27.1028 10000 140.4803 21254 nlias ep-1.0em+1.0 28.1458 2018 9.95828 21126 nlnia ep-1.0em+1.0 28.1458 2018 9.95828 21126 nlnia ep-1.0em+1.0 1582.94 15829 9.95975 21389 nlniaa ep-1.0em+1.0 1582.148 55715 1000 21370 nlnibb ep-1.0em+1.0 15.0178 25018 1000 21370 nlnibb ep-1.0em+1.0 25.0178 25018 1000 21321 nlnicc ep-1.0em+1.0 25.0178 25018 1000 21322 nlnicc ep-1.0em+1.0 25.0178 25018 1000 21353 nlnie2e2 ep-1.0em+1.0 24.868 25789 49.99394 21352 nlnie2e2 ep-1.0em+1.0 24.868 25749 1000.02 21353 nlnie2e2 ep-1.0em+1.0 21.868 25789 49.9938 21355 nlnie2e3 ep-1.0em+1.0 21.868 25789 1900.02 21355 nlnie2e3 ep-1.0em+1.0 21.7892 12789 999.994 21356 nlnie3e3 ep-1.0em+1.0 21.7832 12789 999.934 21357 nlnie2e2 ep-1.0em+1.0 22.848 51000 21357 nlnie2e3 ep-1.0em+1.0 22.859 68031 1000 21357 nlnie2e4 ep-1.0em+1.0 22.759 5500 116.507 2138 n2e2du1 ep+1.0em+1.0 22.687 29800 116.573 2134 n2e2e2n3 ep+1. 21254 n2e2sc ep-1.0em+1.0 20.6933 20493 980.841 21129 n2n2a ep+1.0em+1.0 4486.97 42870 9.55433 21130 n2n2a ep+1.0em+1.0 287.61 28756 9.9995 21141 n2n2aa ep+1.0em+1.0 287.61 28756 9.9995 21142 n2n2aa ep+1.0em+1.0 280.164 2802 10.0013 21153 n2n2aa ep+1.0em+1.0 25.1552 252 10.0178 21154 n2n2aa ep+1.0em+1.0 16.0995 161 10.0003 21369 n2n2bb ep+1.0em+1.0 16.0995 161 10.0003 21369 n2n2cb ep+1.0em+1.0 24.9283 24928 999.988 21329 n2n2cc ep+1.0em+1.0 24.9283 24928 999.988 21329 n2n2cd ep+1.0em+1.0 24.9273 24327 991.834 21381 n2n2dd ep-1.0em+1.0 25.927 5432 991.000 21372 n2n2cle1 ep+1.0em+1.0 16.1179 15718 975.189 21373 n2n2ele1 ep+1.0em+1.0 16.0573 60474 995.709 21377 n2n2ele1 ep+1.0em+1.0 11.424 6124 1000.02 21377 n2n2ele1 ep+1.0em+1.0 11.424 6124 1000.01 21377 n2n2ele3 ep+1.0em+1.0 12.7281 2473 900.01 20598 n2n2h ep+1.0em+1.0 12.7281 2473 900.01 20598 n2n2h ep+1.0em+1.0 25.638 24304 952.956 21325 n2n2us ep+1.0em+1.0 25.84230 999.982 21386 n2n2s ep+1.0em+1.0 25.84230 999.982 21386 n2n2s ep+1.0em+1.0 24.641 9000 43.72 21270 n3e3du ep+1.0em+1.0 24.613 98000 119.266 21228 n3e3du ep+1.0em+1.0 24.613 98000 119.266 21258 n3e3du ep+1.0em+1.0 25.6424 9990.938 21259 n3e3du ep+1.0em+1.0 24.613 98000 119.266 21258 n3e3e1n1 ep+1.0em+1.0 77.523 9800 1351.44 2125 n3e3e2n1 ep+1.0em+1.0 77.523 9800 132.125 21252 n3e3e2n1 ep+1.0em+1.0 77.523 98000 132.125 21252 n3e3e2n1 ep+1.0em+1.0 77.523 98000 132.125 21252 n3e3e2n1 ep+1.0em+1.0 77.523 98000 132.215 21253 n3e3e1n1 ep+1.0em+1.0 77.523 98000 132.215 21257 n3e3e2n1 ep+1.0em+1.0 77.525 98700 128.355 21267 n3e3e2n3 ep+1.0em+1.0 77.525 98700 128.355 21277 n3e3e2en1 ep+1.0em+1.0 75.544 52450 10.001 2134 n3n3a

21337 n3n3e2e2 ep+1.0em-1.0 24.7238 24324 983.829 21338 n3n3e2e2 ep-1.0em+1.0 12.8475 12847 939.961 20601 n3n3h ep-1.0em+1.0 23.8138 33814 1000.01 20602 n3n3h ep-1.0em+1.0 25.5558 25555 1000.01 21405 n3n3ss ep+1.0em+1.0 25.5558 25555 1000.01 21333 n3n3uu ep+1.0em+1.0 24.5458 24344 931.835 21135 ss ep+1.0em+1.0 24.5458 24344 931.835 21135 ss ep+1.0em+1.0 24.9438 24348 931.835 21135 ss ep+1.0em+1.0 28018,8 93400 3,54762 21529 ssbb ep+1.0em+1.0 58.9474 58947 939.933 20629 ssh ep+1.0em+1.0 58.9474 58947 939.933 20629 ssh ep+1.0em+1.0 58.9474 58947 939.933 20629 ssh ep+1.0em+1.0 58.9474 58947 939.935 20630 ssh ep-1.0em+1.0 58.9474 58947 939.935 20630 ssh ep-1.0em+1.0 6633.45 10000 0.11 21252 ssss ep+1.0em-1.0 6633.45 10000 0.11 21252 ssss ep+1.0em-1.0 6633.45 10000 0.15.0751 21290 uddu ep+1.0em+1.0 6633.45 10000 0.15.0751 21290 uddu ep+1.0em+1.0 24.8737 28907 939.936 21277 udd1n1 ep+1.0em+1.0 28.9378 2097 939.936 21279 udd1n1 ep+1.0em+1.0 28.9378 2097 939.936 21279 udd1n1 ep+1.0em+1.0 28.9373 2097 939.936 21279 udd1n1 ep+1.0em+1.0 28.9373 2097 939.936 21279 udd1n1 ep+1.0em+1.0 28.9373 2097 939.936 21279 udd1n1 ep+1.0em+1.0 28.937 53130 38.659 21289 udd2n2 ep+1.0em+1.0 28.937 53130 38.659 21289 udd2n3 ep+1.0em+1.0 29.831 20833 939.935 21281 udd2n2 ep+1.0em+1.0 29.831 20833 932.942 2134 udsc ep+1.0em+1.0 123.961 93000 801.865 21450 udsb ep+1.0em+1.0 123.961 93000 20.0644 21452 uucbb ep+1.0em+1.0 123.925 93200 907.627 21454 uuccb ep+1.0em+1.0 123.926 93200 907.627 21454 uuccb ep+1.0em+1.0 123.926 93200 907.627 2145 uuccb ep+1.0em+1.0 103.937 51309 1000.01 2145 uuc

B Histograms of cut variables

B.1 $Z \rightarrow e^+e^-$ mode

Figures 17 - 28 show the histograms of cut variables. The blue lines in all histograms show the signal process $ZH \rightarrow e^+e^-\tau^+\tau^-$.



Figure 17: Number of tracks ≤ 8 .



Figure 18: 115 GeV $< E_{\rm vis} < 230$ GeV.



Figure 19: $|\cos \theta_{\rm miss}| < 0.99$.



Figure 20: 81 GeV $< M_Z < 113$ GeV.



Figure 21: $\cos \theta_{e^-} < 0.92$.





Figure 22: $\cos \theta_{e^+} > -0.92$.

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Figure 24: $E_{e^+} < 90$ GeV.



Figure 25: $\cos \theta_{\tau^+ \tau^-} < -0.45$.





Figure 27: $\cos \theta_{\tau^+} > -0.92$.

Figure 28: 116 GeV $< M_{\rm recoil} <$ 142 GeV.

B.2 $Z \rightarrow \mu^+ \mu^-$ mode

Figures 29 - 36 show the histograms of cut variables. The red lines in all histograms show the signal process $ZH \rightarrow \mu^+\mu^-\tau^+\tau^-$.



Figure 29: Number of tracks ≤ 8 .



Figure 31: $|\cos \theta_{\rm miss}| < 0.98$.



Figure 30: 115 GeV $< E_{\rm vis} < 235$ GeV.



Figure 32: 72 GeV $< M_Z < 107$ GeV.





Figure 34: $E_{e^+} < 90$ GeV.



Figure 35: $\cos \theta_{\tau^+ \tau^-} < -0.5$.



Figure 36: 118 GeV $< M_{\rm recoil} < 143$ GeV.

B.3 $Z \rightarrow q\bar{q}$ mode

Figures 37 - 49 show the histograms of cut variables. The blue lines in all histograms show the signal process $ZH \rightarrow q\bar{q}\tau^+\tau^-$.



Figure 37: $9 \leq$ number of tracks < 50.



Figure 39: $|\cos \theta_{\rm miss}| < 0.98$.



Figure 38: 110 ${\rm GeV} < E_{\rm vis} < 235$ GeV.



Figure 40: 77 GeV $< M_Z < 135$ GeV.



Figure 41: 80 GeV $< E_Z < 135$ GeV.



Figure 42: $\cos \theta_{\tau^+ \tau^-} < -0.5$.



Figure 43: $\log_{10}(|d_0/\sigma(d_0)|)(\tau^-)$ $\log_{10}(|d_0/\sigma(d_0)|)(\tau^+) > -0.7.$



+ Figure 44: $\log_{10}(|z_0/\sigma(z_0)|)(\tau^-) + \log_{10}(|z_0/\sigma(z_0)|)(\tau^+) > -0.1.$



Figure 45: $M_{\tau^+\tau^-} < 115$ GeV.

Figure 46: $E_{\tau^+\tau^-} < 125$ GeV.



Figure 47: 100 GeV $< M_{\text{colapp}} < 170$ GeV.



Figure 49: 112 GeV $< M_{\text{recoil}} < 160$ GeV.

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Figure 48: 100 GeV $< E_{colapp} < 280$ GeV.

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