

Update

- recoil mass measurement ($Z \rightarrow ll$) at 250 GeV with $m_H = 125$ GeV confirmed previous extrapolation $\Delta\sigma / \sigma \sim 2.6\%$.
- new recoil mass study, $Z \rightarrow ll$ @ 500 GeV (by Taikan), gives $\Delta\sigma / \sigma \sim 4.8\%$.
- new recoil mass study, $Z \rightarrow qq$ @ 500 GeV (by Akiya), gives $\Delta\sigma / \sigma \sim 3.9\%$

global fit --model independent

case 1

baseline

luminosity upgrade

250 GeV: 250 fb⁻¹
 500 GeV: 500 fb⁻¹
 1 TeV: 1000 fb⁻¹

250 GeV: 1150 fb⁻¹
 500 GeV: 1600 fb⁻¹
 1 TeV: 2500 fb⁻¹

MH = 125 GeV
 P(e-,e+)=(-0.8,+0.3) @ 250, 500 GeV
 P(e-,e+)=(-0.8,+0.2) @ 1 TeV

coupling $\Delta g/g$	luminosity upgrade		
	250 GeV	250 GeV + 500 GeV	250 GeV + 500 GeV + 1 TeV
HZZ	0.61%	0.61%	0.61%
HWW	2.3%	0.67%	0.65%
Hbb	2.5%	0.90%	0.74%
Hcc	3.2%	1.5%	1.1%
Hgg	3.0%	1.3%	0.93%
H $\tau\tau$	2.7%	1.2%	0.99%
H $\gamma\gamma$	8.2%	4.5%	2.4%
H $\mu\mu$	-	-	10%
Htt	-	7.8%	2.0%
Γ_0	5.4%	2.8%	2.7%



250 GeV + 500 GeV + 1 TeV
0.51%
0.56%
0.66%
1.0%
0.87%
0.93%
2.4%
10%
2.0%
2.3%