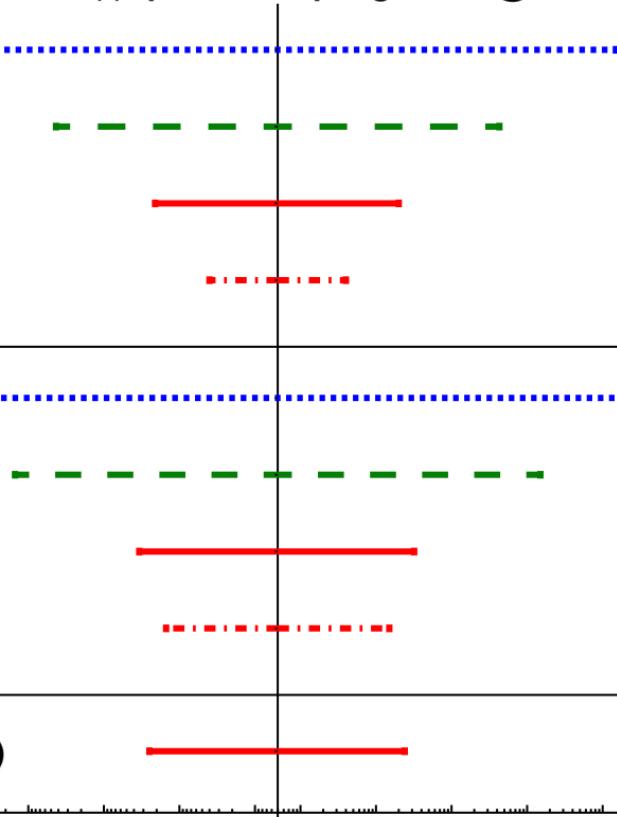


LEP L3
D0

CMS WW γ
CMS $\gamma\gamma \rightarrow WW$

Anomalous $WW\gamma\gamma$ quartic coupling limits @95% C.L.

a_0^W/Λ^2 (TeV $^{-2}$)



Channel	Limits	$\int L dt$	\sqrt{s}
$WW\gamma$	[- 15000, 15000]	0.4fb $^{-1}$	0.20 TeV
$\gamma\gamma \rightarrow WW$	[- 430, 430]	9.7fb $^{-1}$	1.96 TeV
$WW\gamma$	[- 21, 20]	19.3fb $^{-1}$	8.0 TeV
$\gamma\gamma \rightarrow WW$	[- 4, 4]	5.1fb $^{-1}$	7.0 TeV
$WW\gamma$	[- 48000, 26000]	0.4fb $^{-1}$	0.20 TeV
$\gamma\gamma \rightarrow WW$	[- 1500, 1500]	9.7fb $^{-1}$	1.96 TeV
$WW\gamma$	[- 34, 32]	19.3fb $^{-1}$	8.0 TeV
$\gamma\gamma \rightarrow WW$	[- 15, 15]	5.1fb $^{-1}$	7.0 TeV
$WW\gamma$	[- 25, 24]	19.3fb $^{-1}$	8.0 TeV

a_c^W/Λ^2 (TeV $^{-2}$)

$f_{T,0}/\Lambda^4$ (TeV $^{-4}$)

-10 5 -10 4 -10 3 -10 2 -10 -1 1 10 10 2 10 3 10 4 10 5