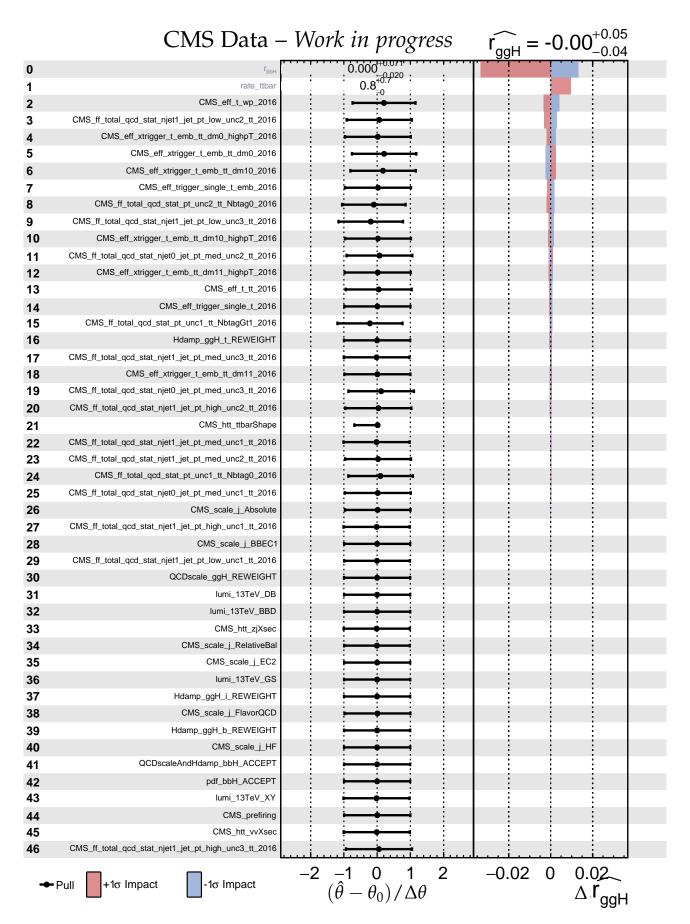
Annexe X Ajustement des paramètres de nuisance – H ightarrow au au

Les paramètres de nuisance introduits au chapitre 4 sont ajustés par COMBINE, l'outil de combination statistique utilisé par la collaboration CMS basé sur ROOSTATS [1].

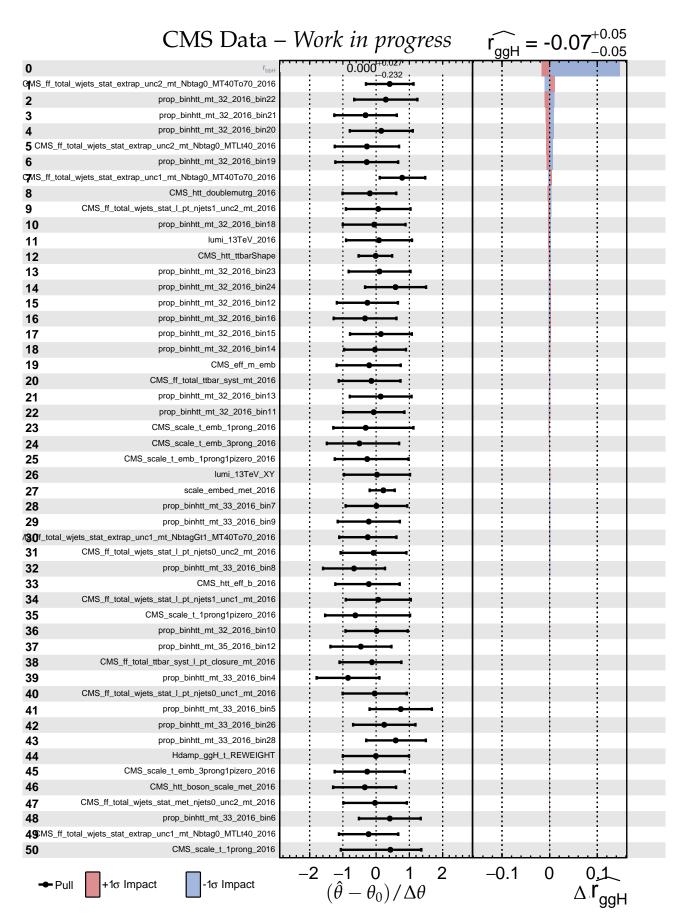
Dans cette annexe, les valeurs prises par ces paramètres après ajustement pour l'obtention des limites d'exclusion indépendantes du modèle $\hat{\theta}$ (pulls) ainsi que l'incertitude sur cette valeur sont donnés en termes de nombre de déviations standard $\Delta\theta$ par rapport à la valeur nominale θ_0 . Leur effet sur le paramètre d'intérêt, en l'occurrence le modificateur d'intensité du signal $\mu = r_{ggH}$, est donné par les bandes rouges et bleues. Elles correspondent respectivement aux effets corrélé et anticorrélé du paramètre de nuisance sur μ ($\pm 1\sigma$ impact).

Références

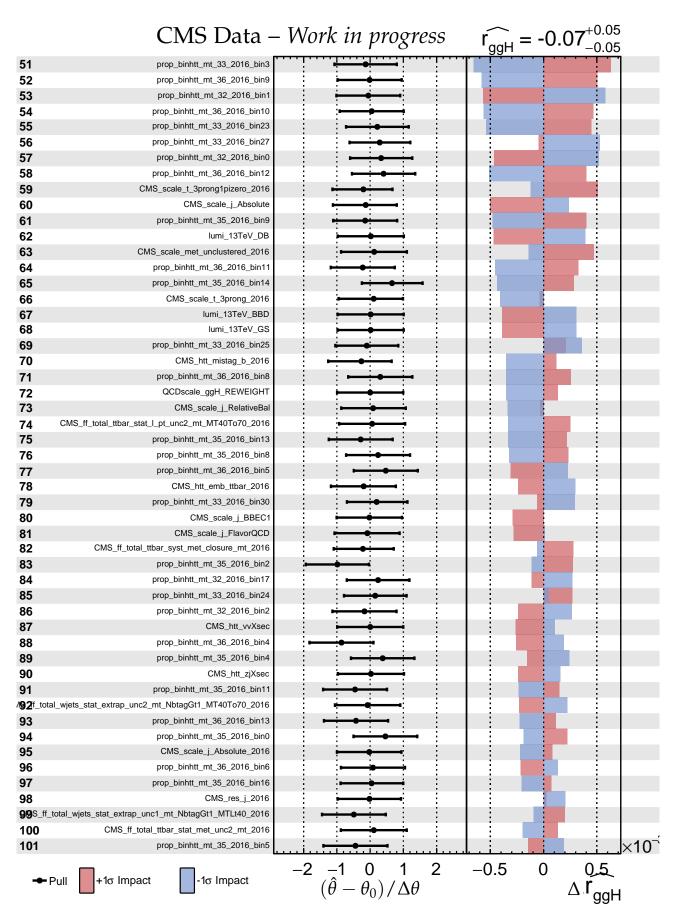
[1] L. Moneta & coll. « The RooStats Project ». 13th International Workshop on Advanced Computing and Analysis Techniques in Physics Research (ACAT2010). 2010. URL: http://pos.sissa.it/archive/conferences/093/057/ACAT2010_057.pdf.



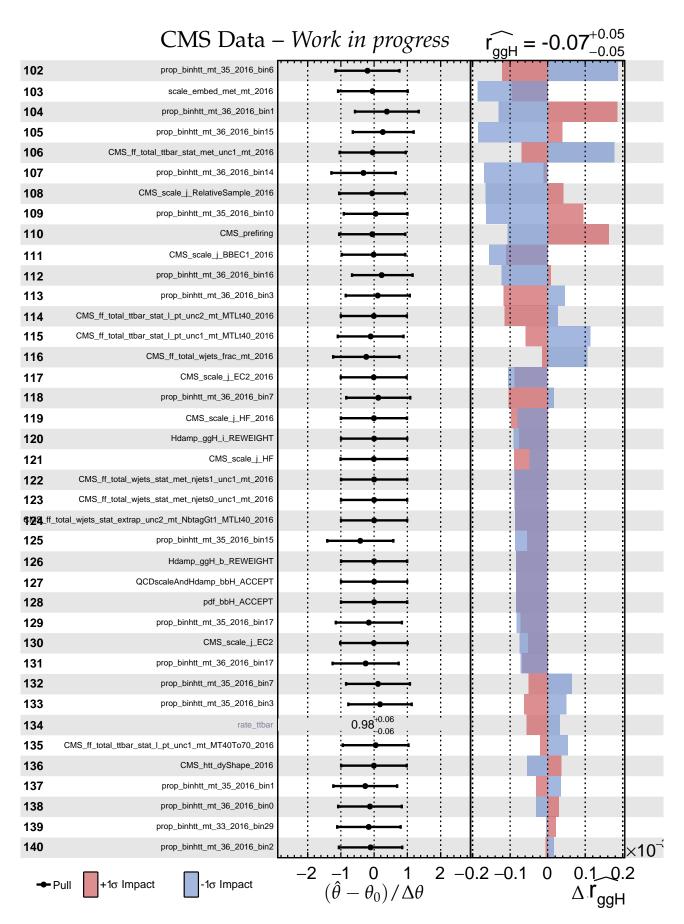
Année 2016, canal $\tau_h \tau_h$, page 1/1



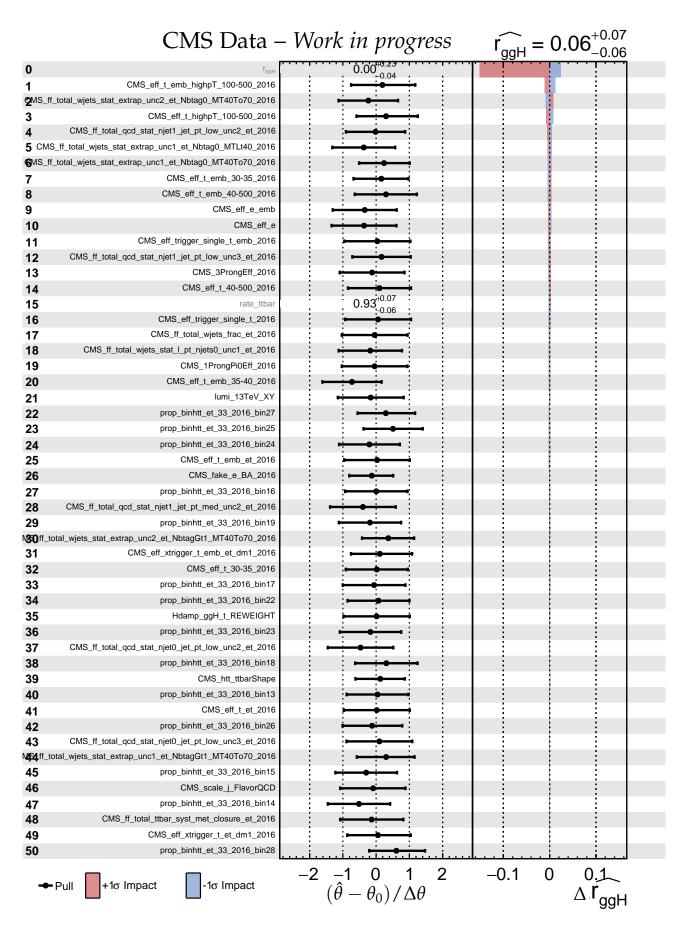
Année 2016, canal $\mu \tau_h$, page 1/3



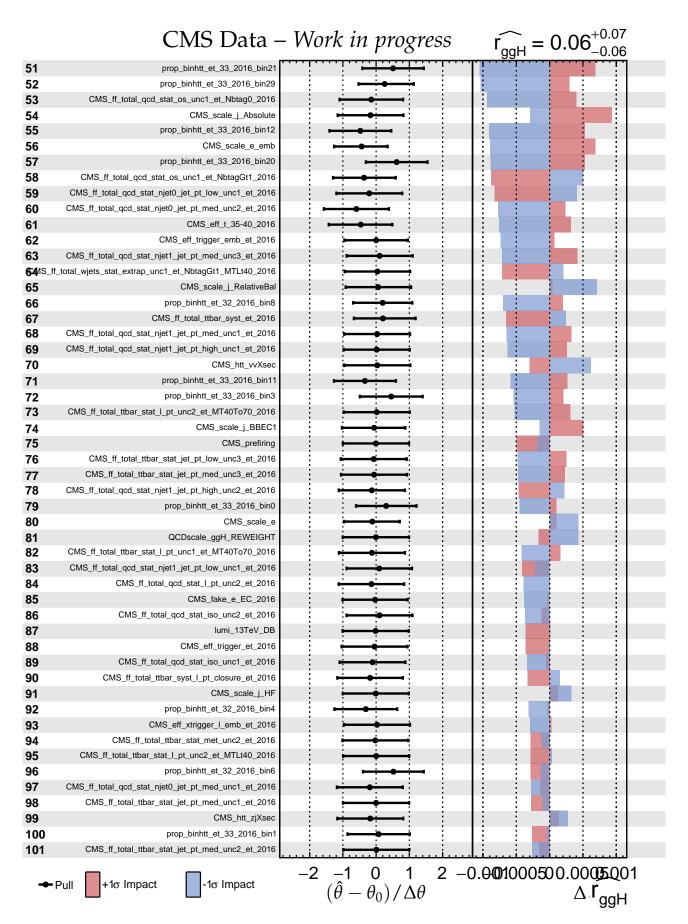
Année 2016, canal $\mu \tau_h$, page 2/3



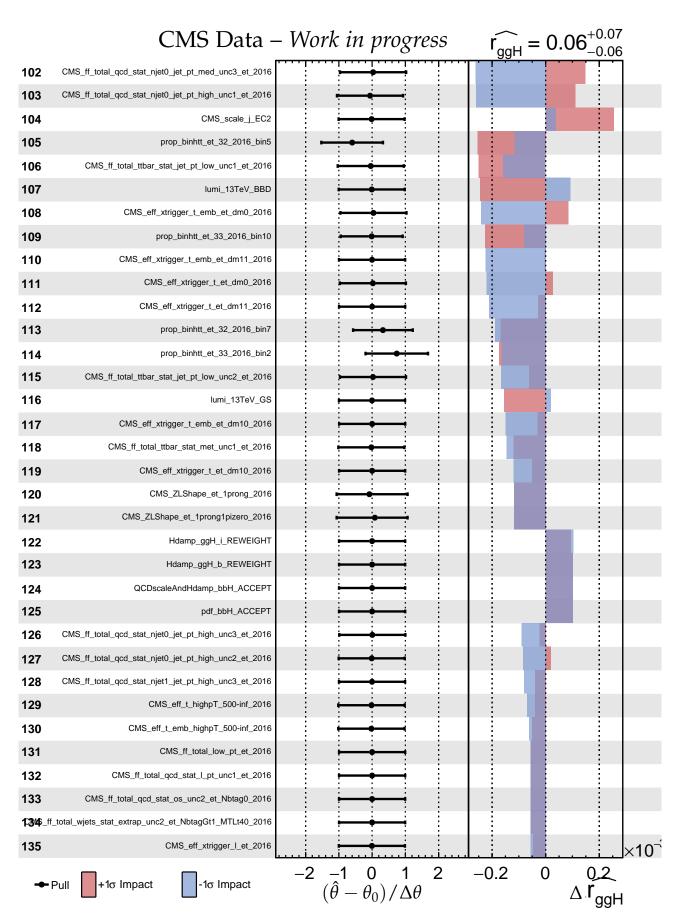
Année 2016, canal $\mu \tau_h$, page 3/3



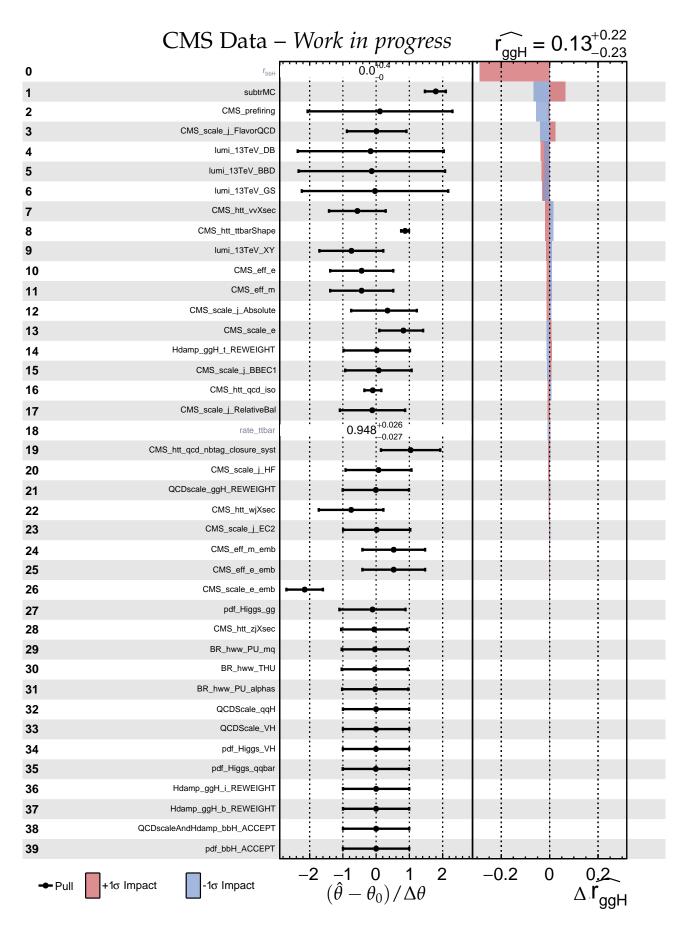
Année 2016, canal $e\tau_h$, page 1/3



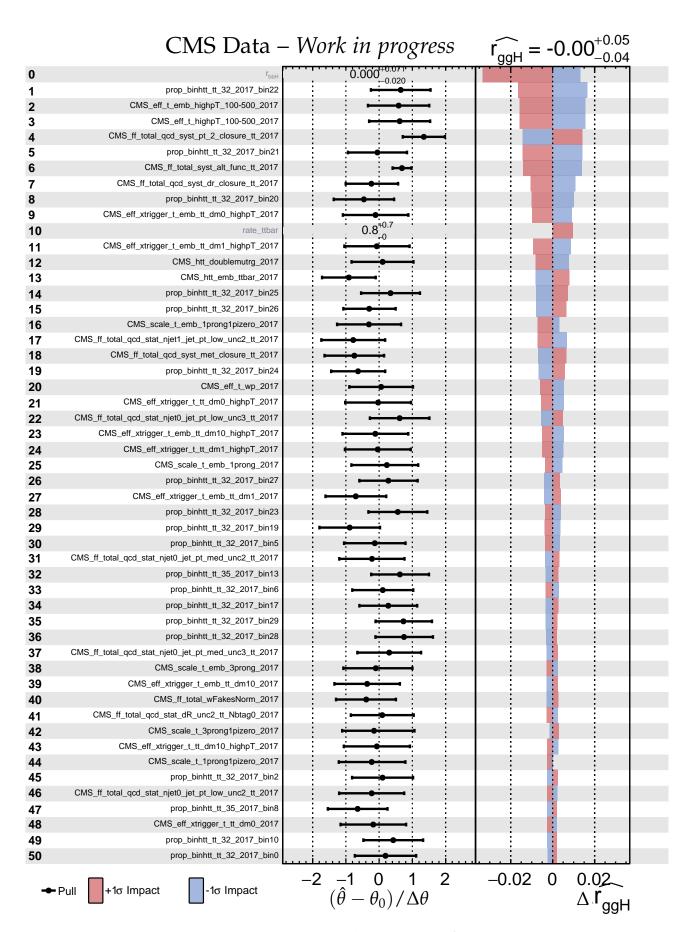
Année 2016, canal $e\tau_h$, page 2/3



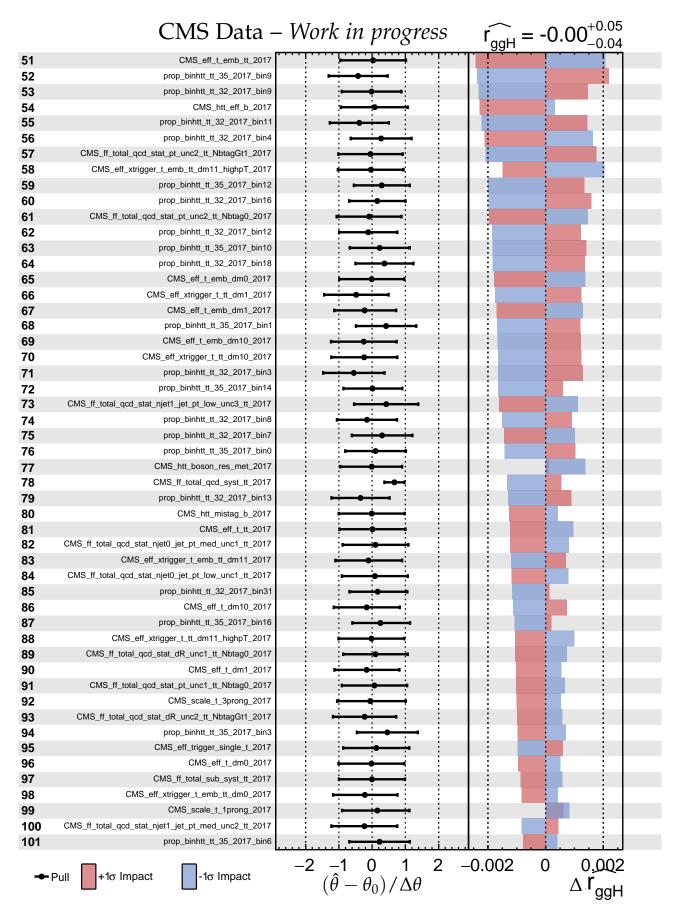
Année 2016, canal $e\tau_h$, page 3/3



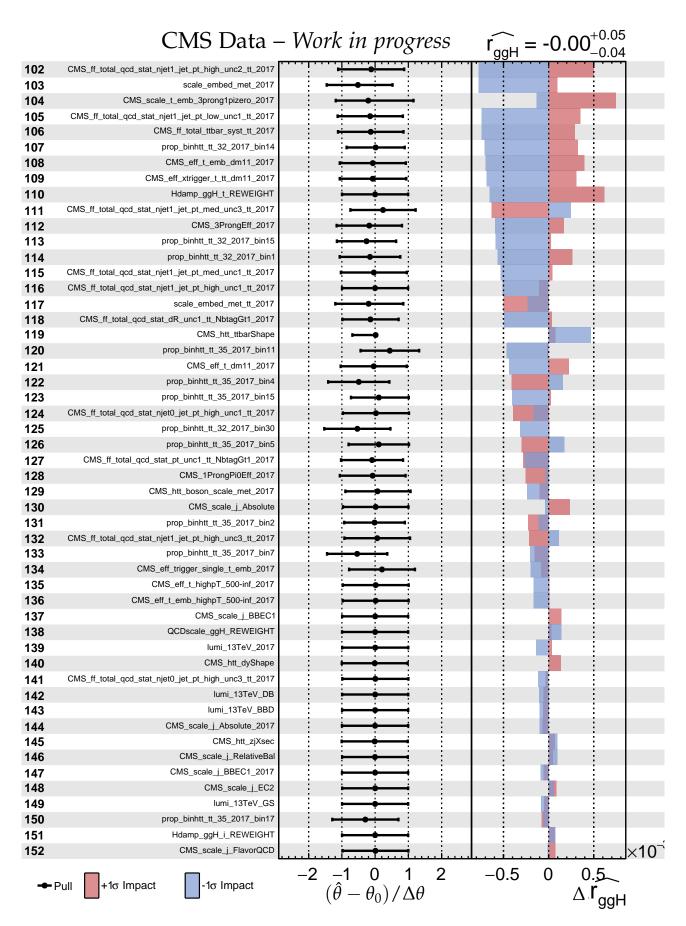
Année 2016, canal eµ, page 1/1



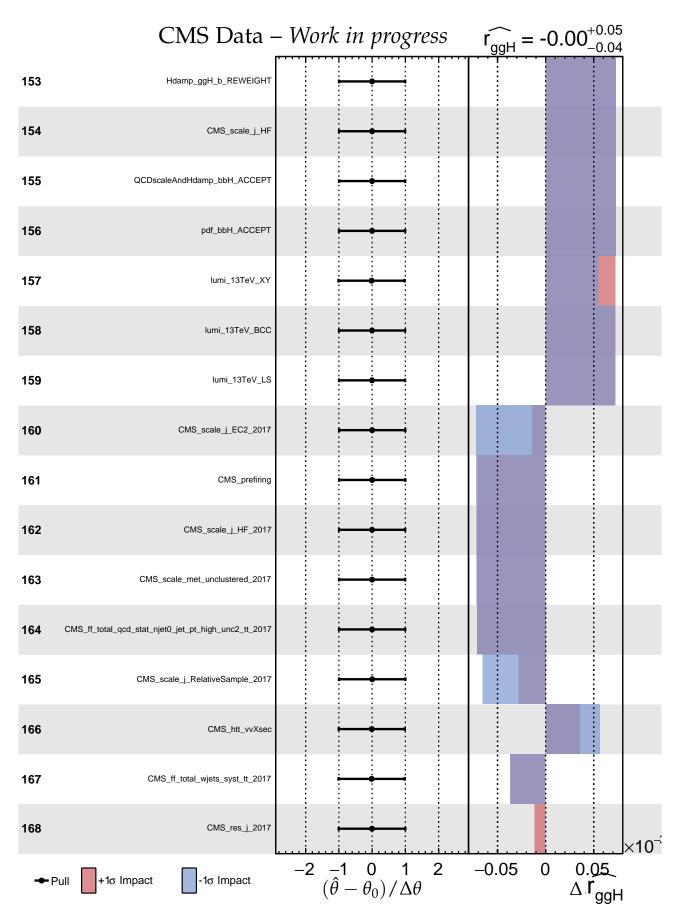
Année 2017, canal $\tau_h \tau_h$, page 1/4



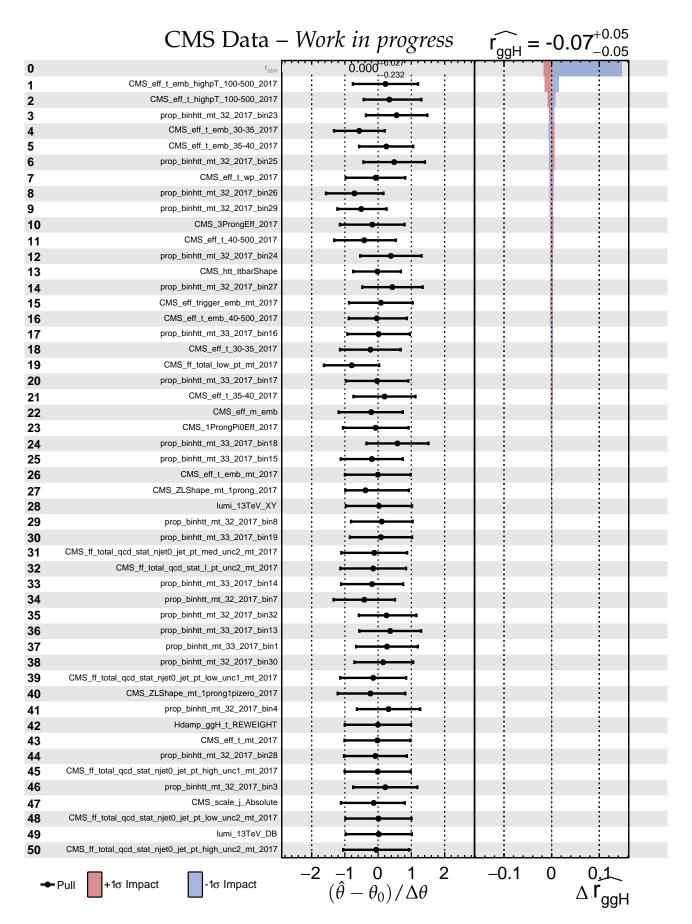
Année 2017, canal $\tau_h \tau_h$, page 2/4



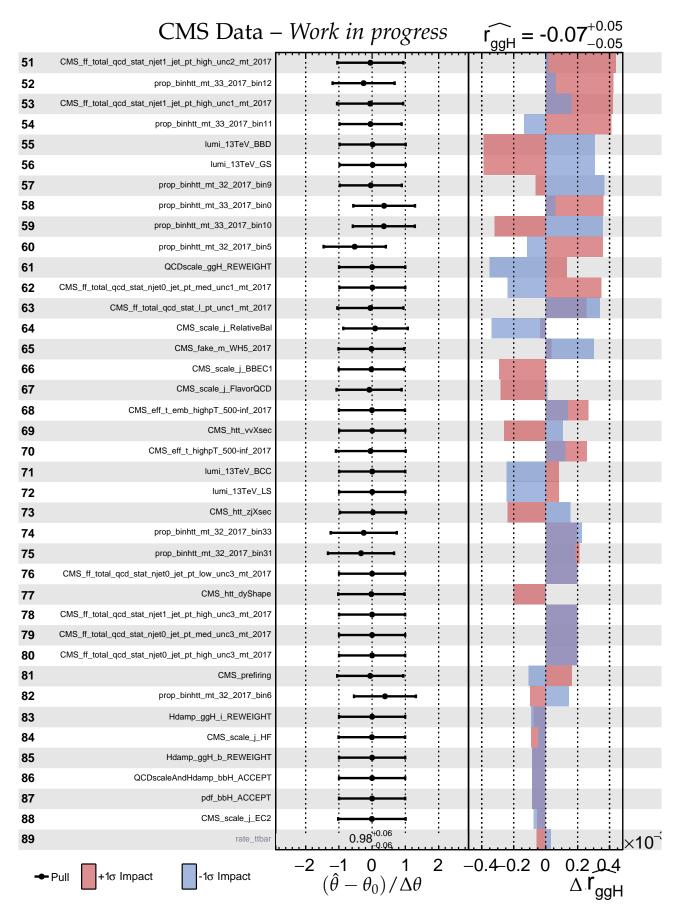
Année 2017, canal $\tau_h \tau_h$, page 3/4



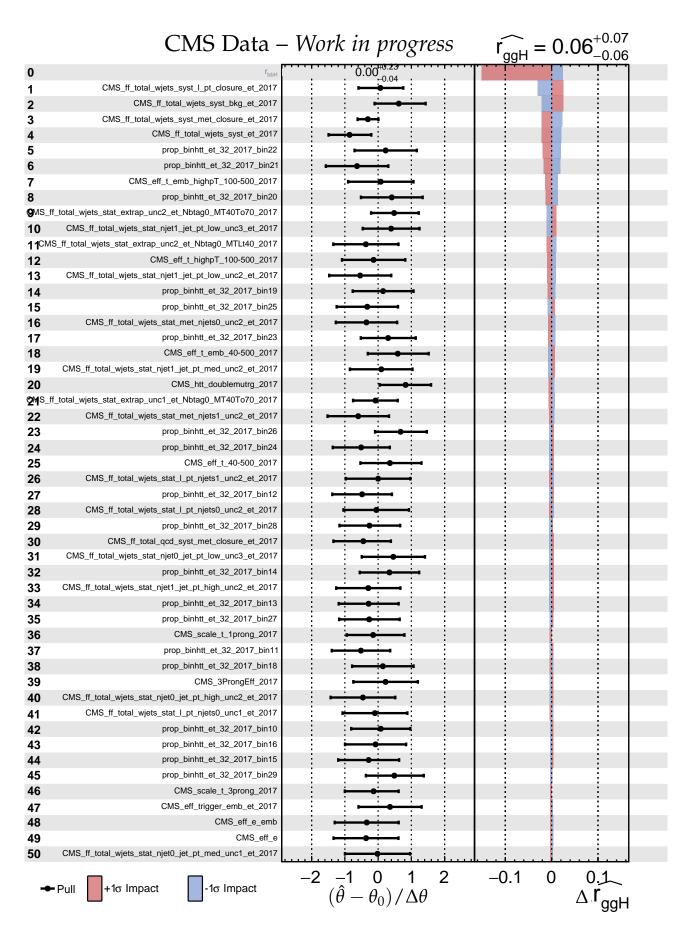
Année 2017, canal $\tau_h \tau_h$, page 4/4



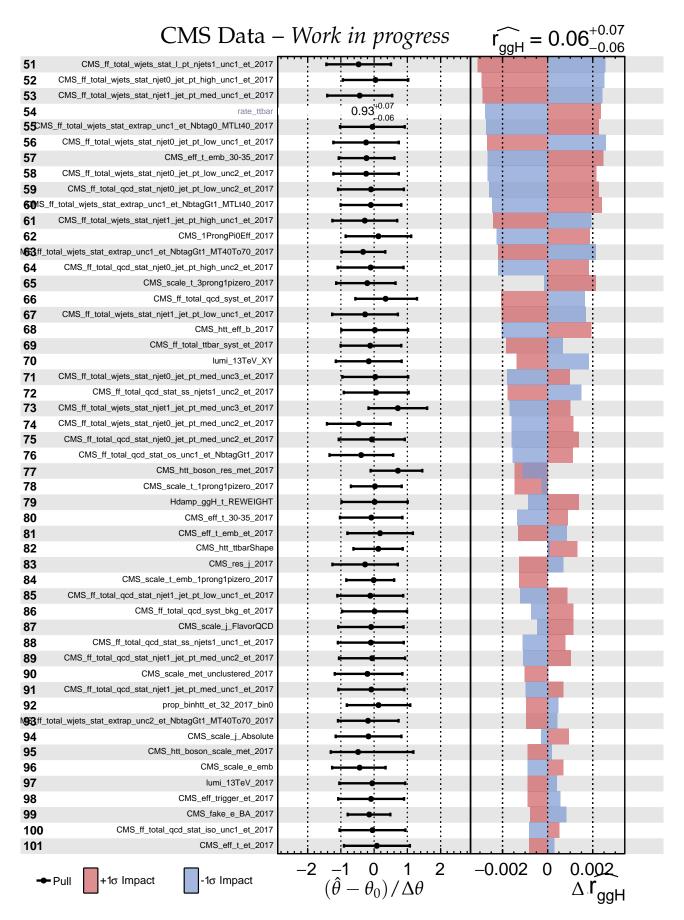
Année 2017, canal $\mu \tau_h$, page 1/2



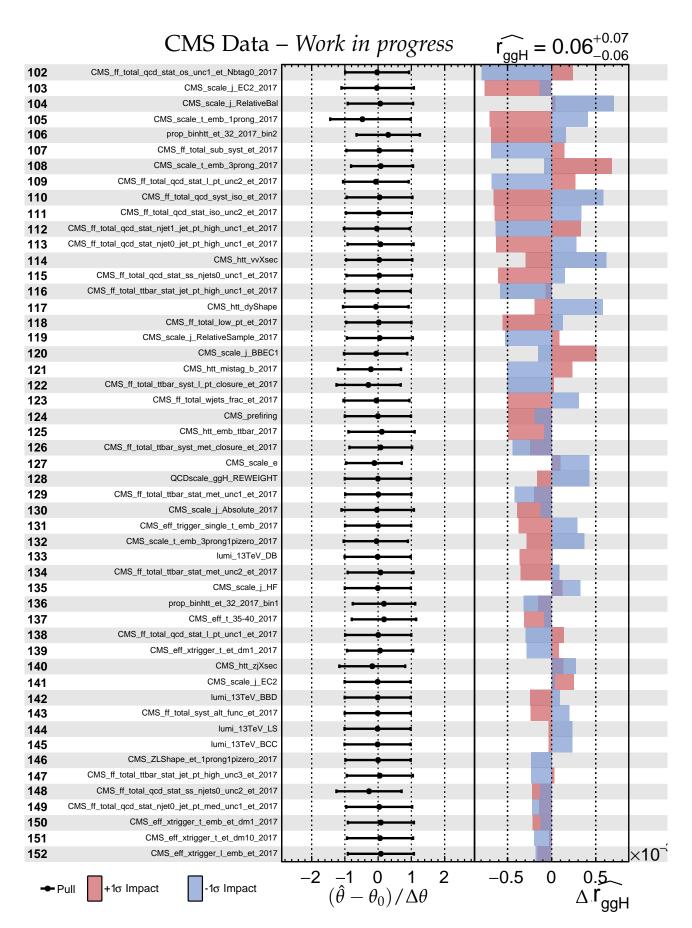
Année 2017, canal $\mu \tau_h$, page 2/2



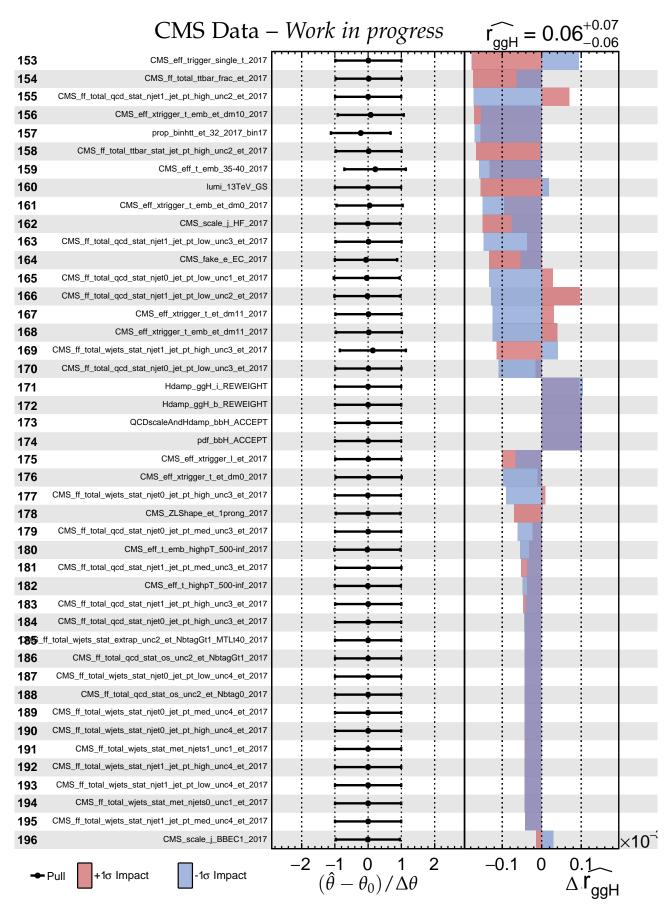
Année 2017, canal $e\tau_h$, page 1/4



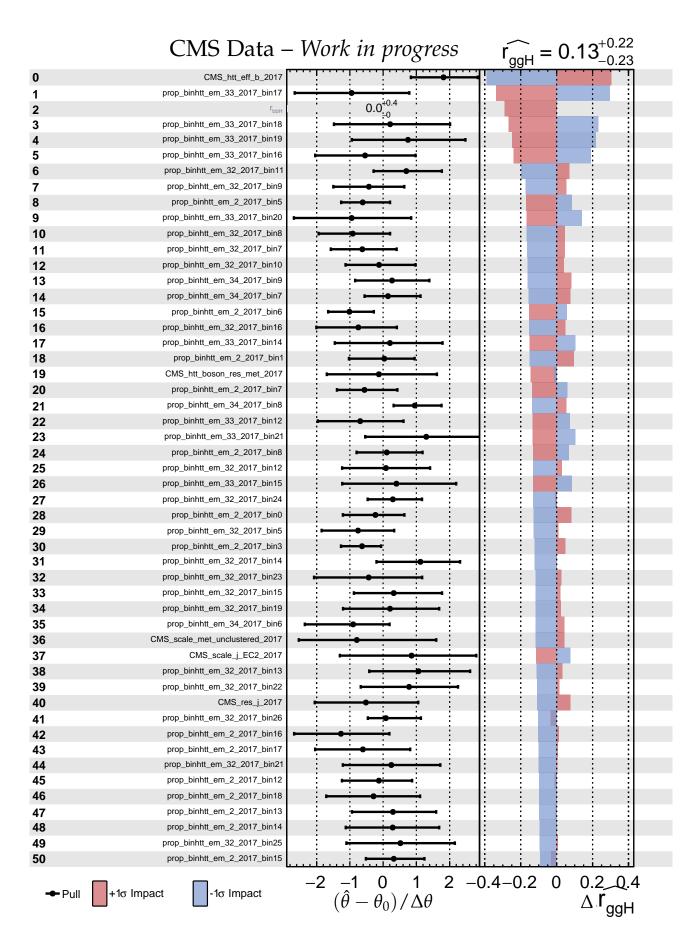
Année 2017, canal $e\tau_h$, page 2/4



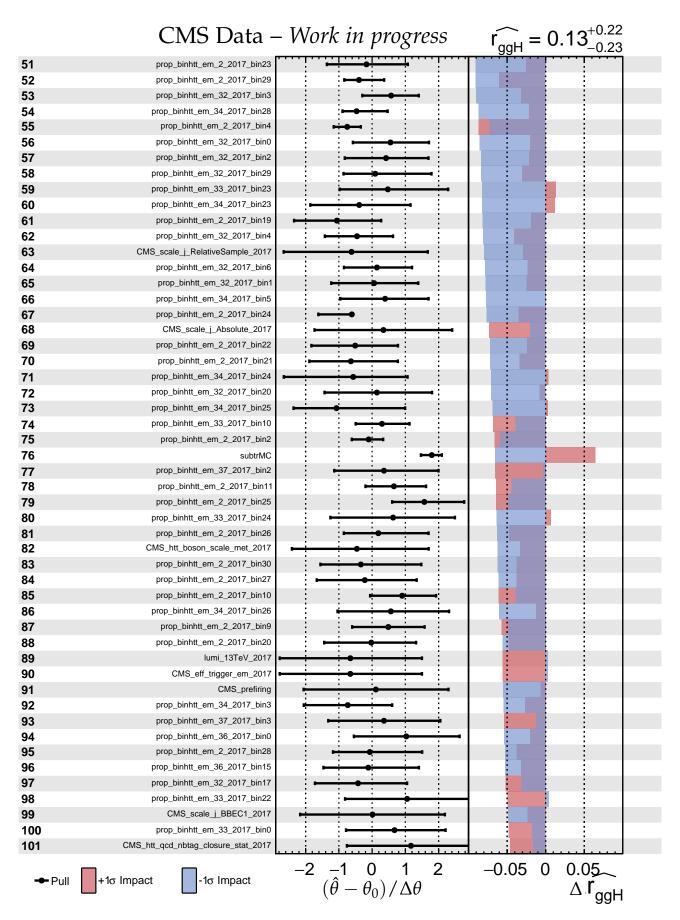
Année 2017, canal $e\tau_h$, page 3/4



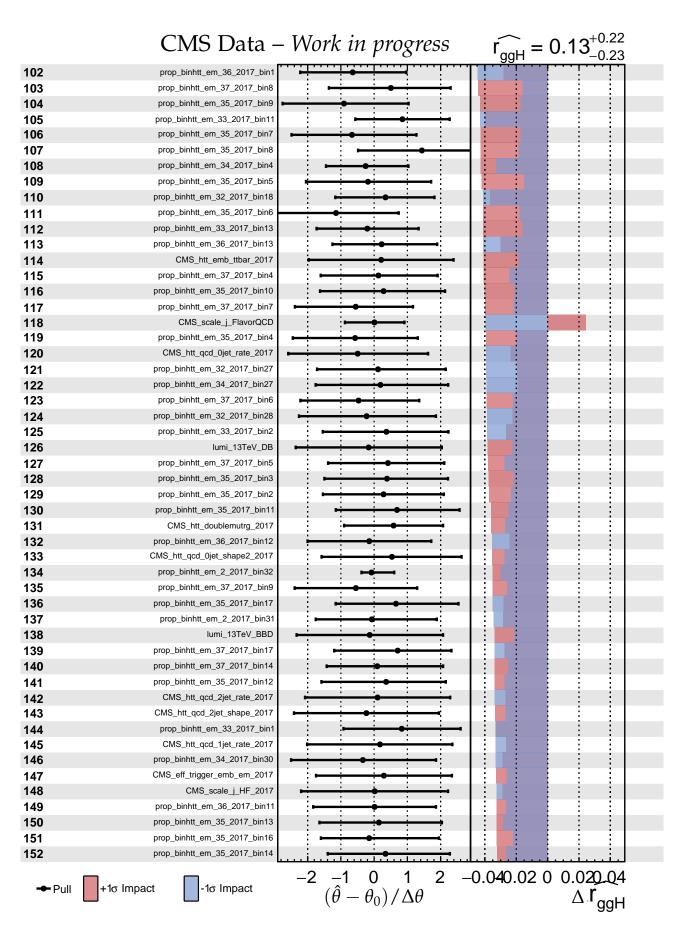
Année 2017, canal $e\tau_h$, page 4/4



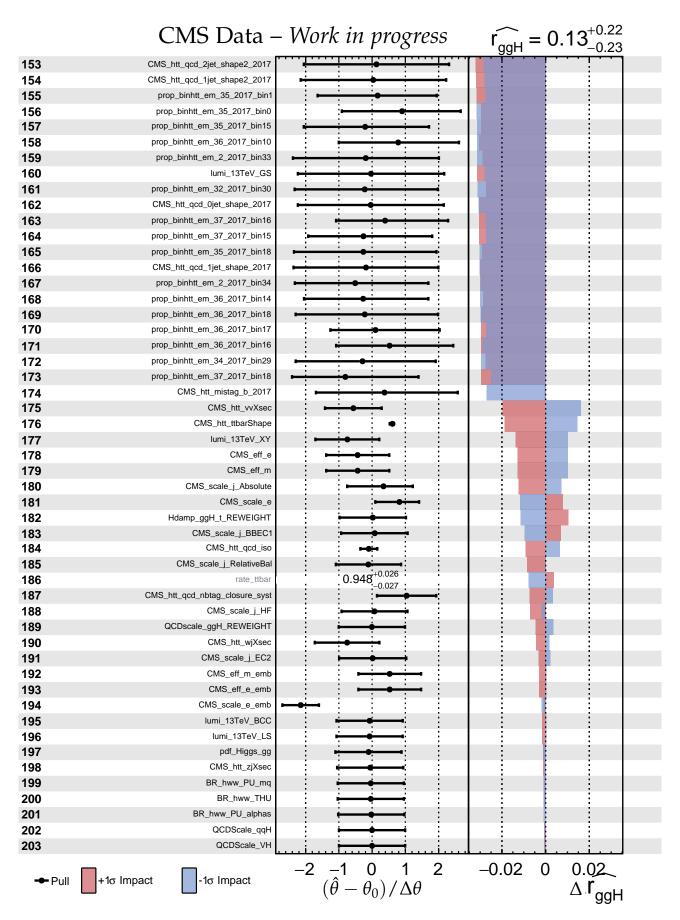
Année 2017, canal $e\mu$, page 1/5



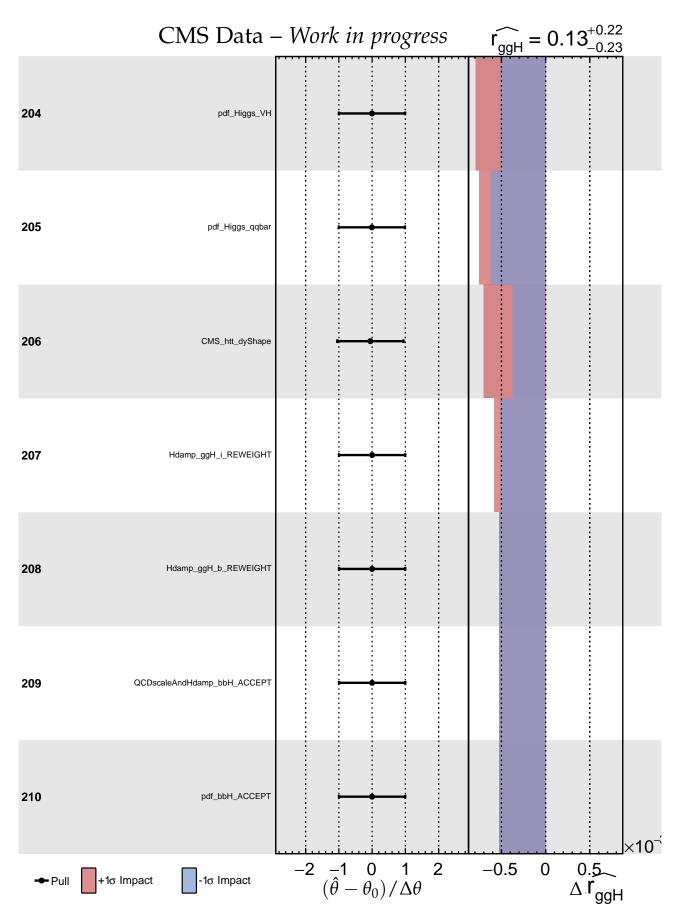
Année 2017, canal $e\mu$, page 2/5



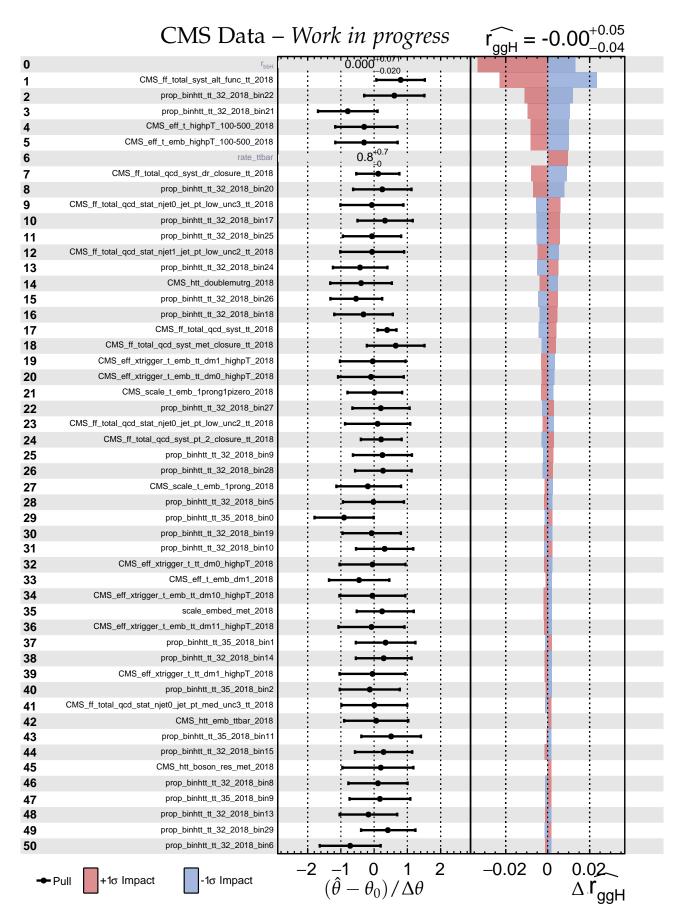
Année 2017, canal $e\mu$, page 3/5



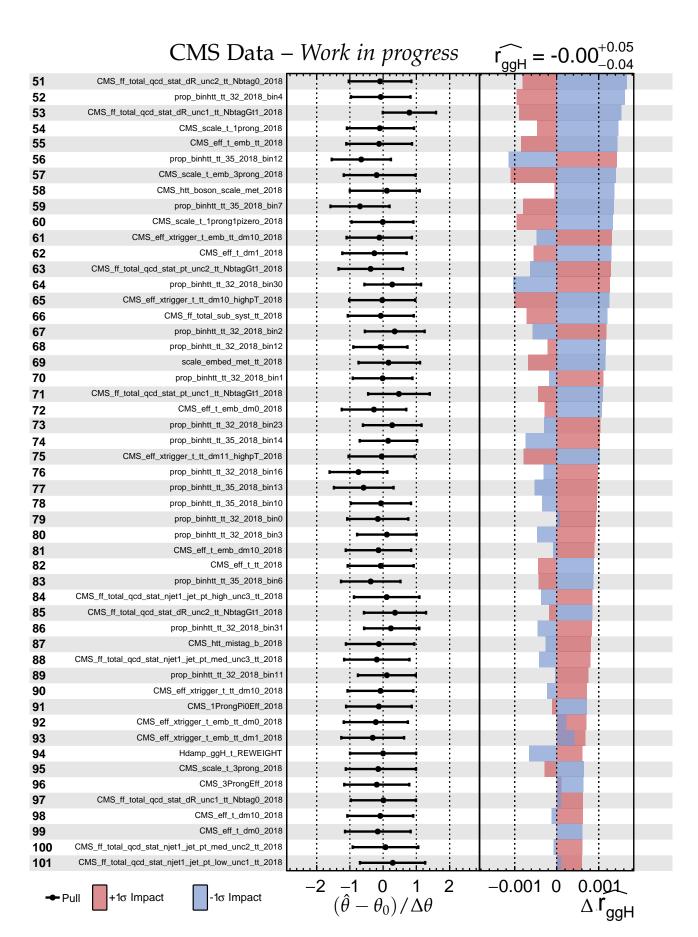
Année 2017, canal $e\mu$, page 4/5



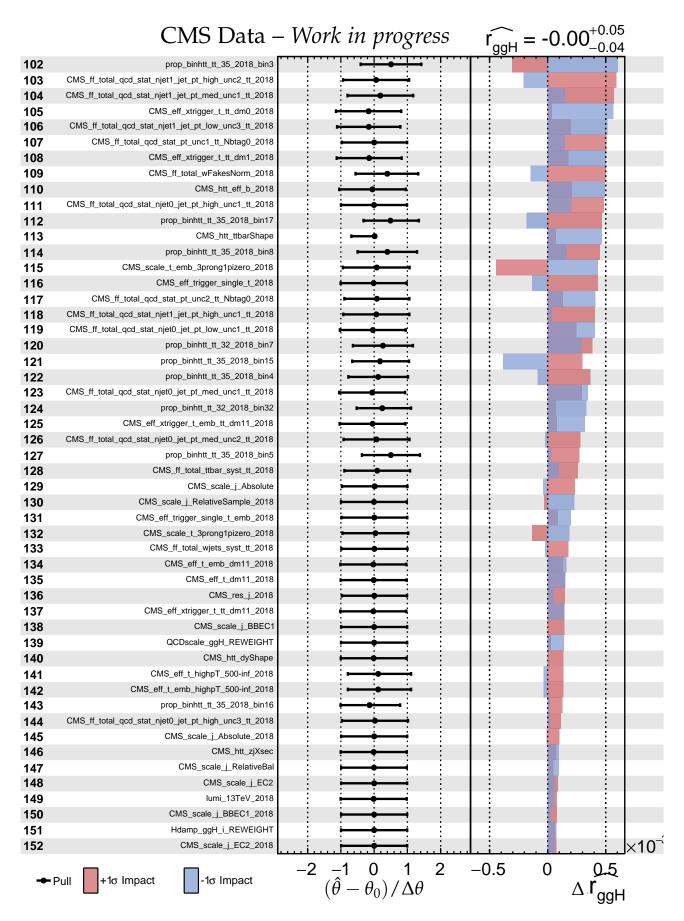
Année 2017, canal eµ, page 5/5



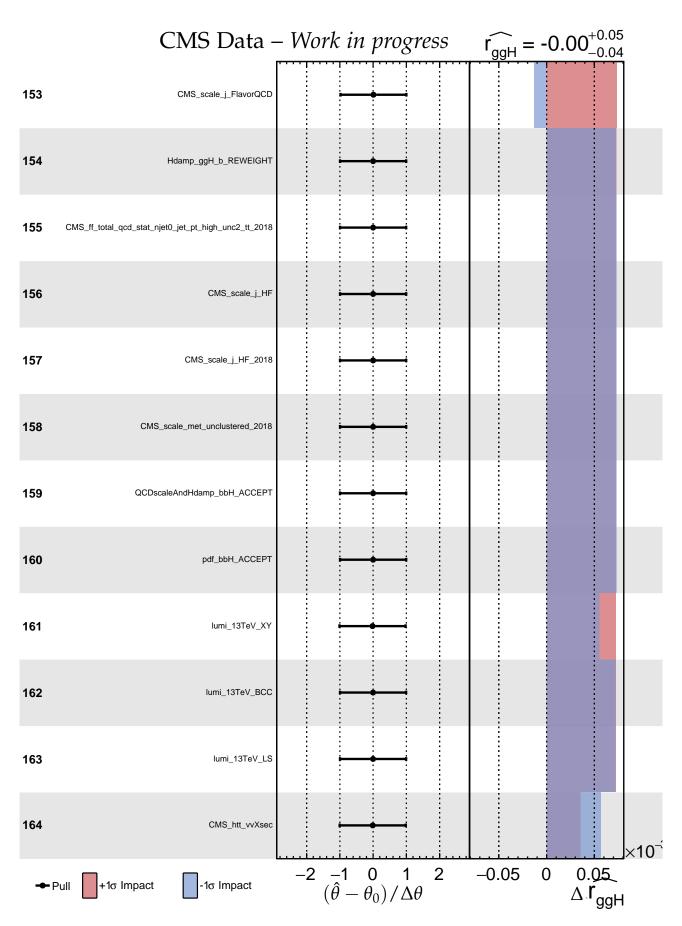
Année 2018, canal $\tau_h \tau_h$, page 1/4



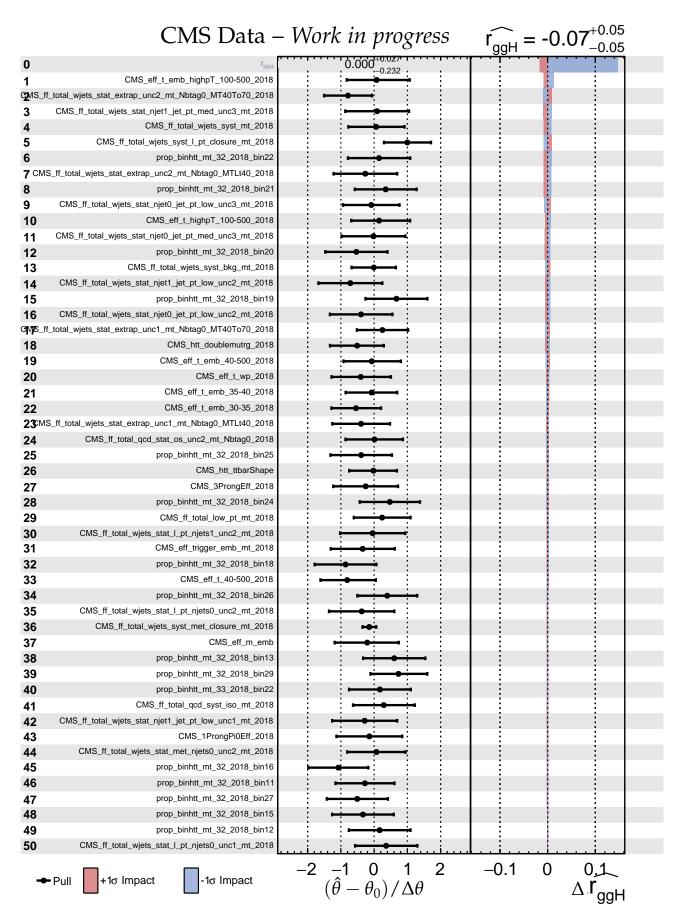
Année 2018, canal $\tau_h \tau_h$, page 2/4



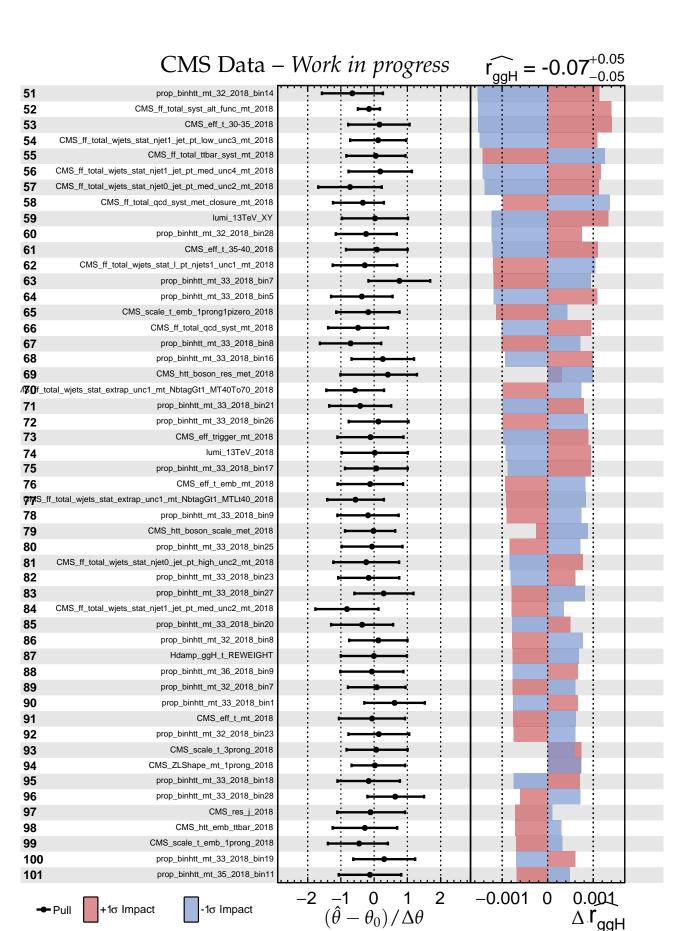
Année 2018, canal $\tau_h \tau_h$, page 3/4



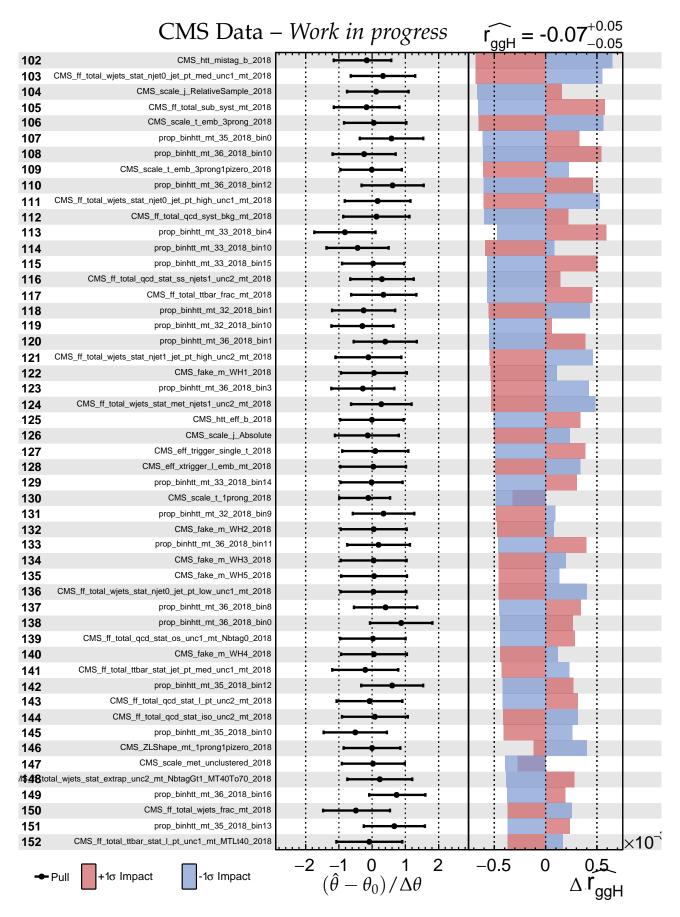
Année 2018, canal $\tau_{\rm h}\tau_{\rm h}$, page 4/4



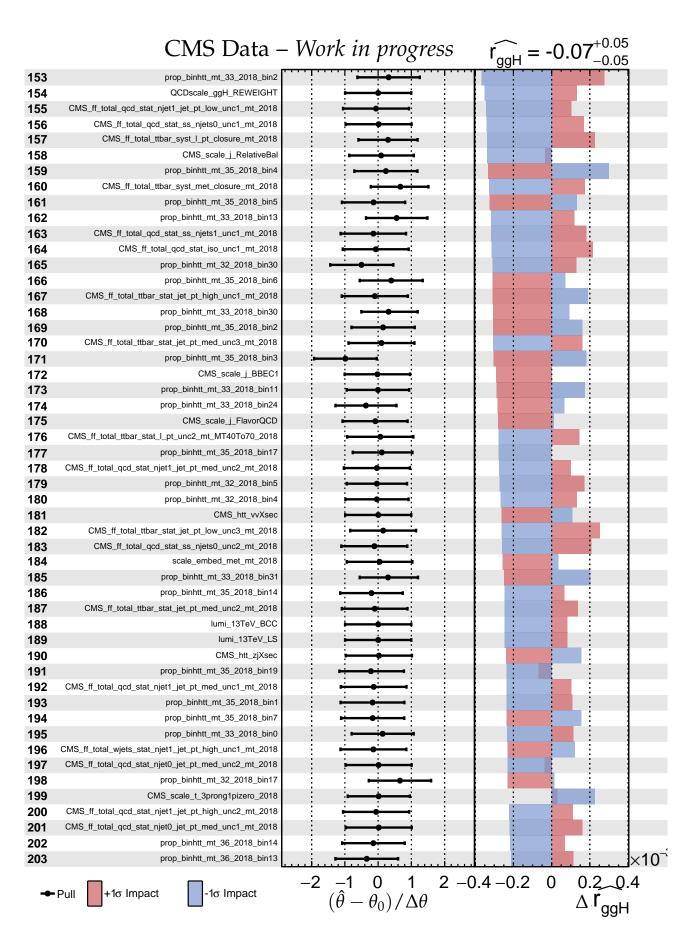
Année 2018, canal $\mu \tau_h$, page 1/6



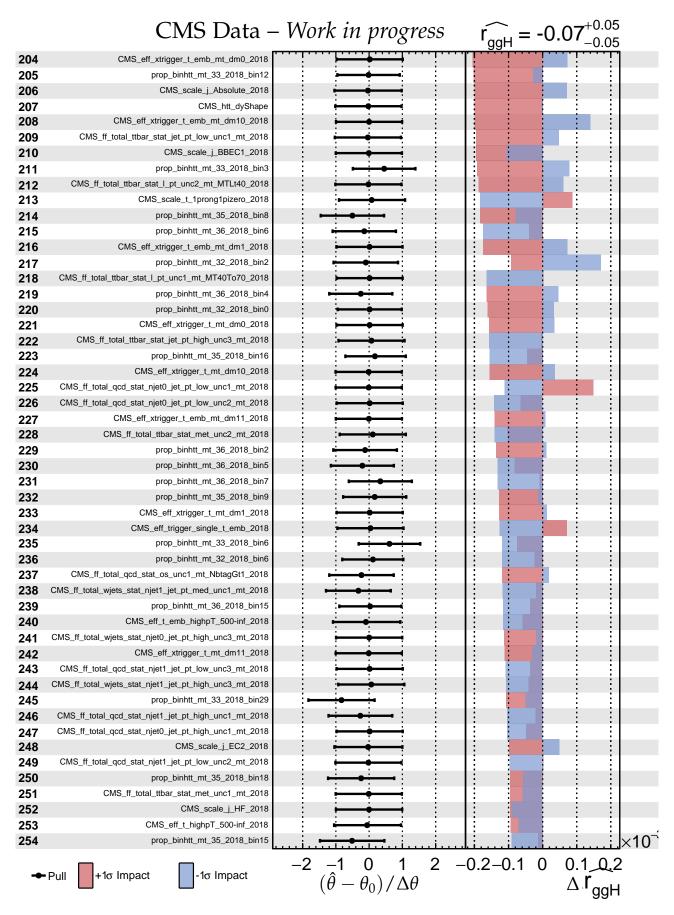
Année 2018, canal $\mu \tau_h$, page 2/6



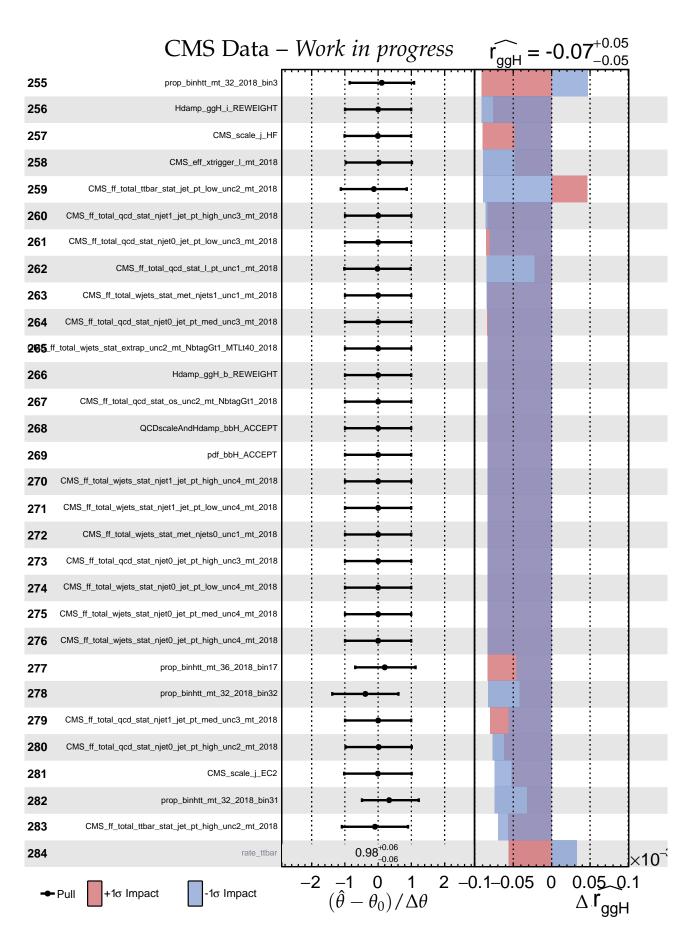
Année 2018, canal $\mu \tau_h$, page 3/6



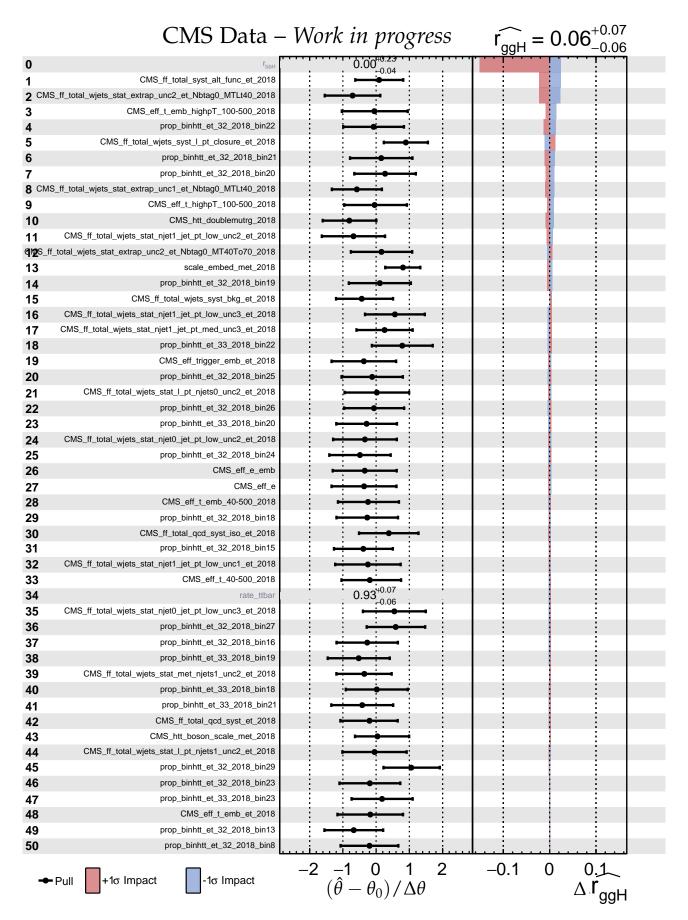
Année 2018, canal $\mu \tau_h$, page 4/6



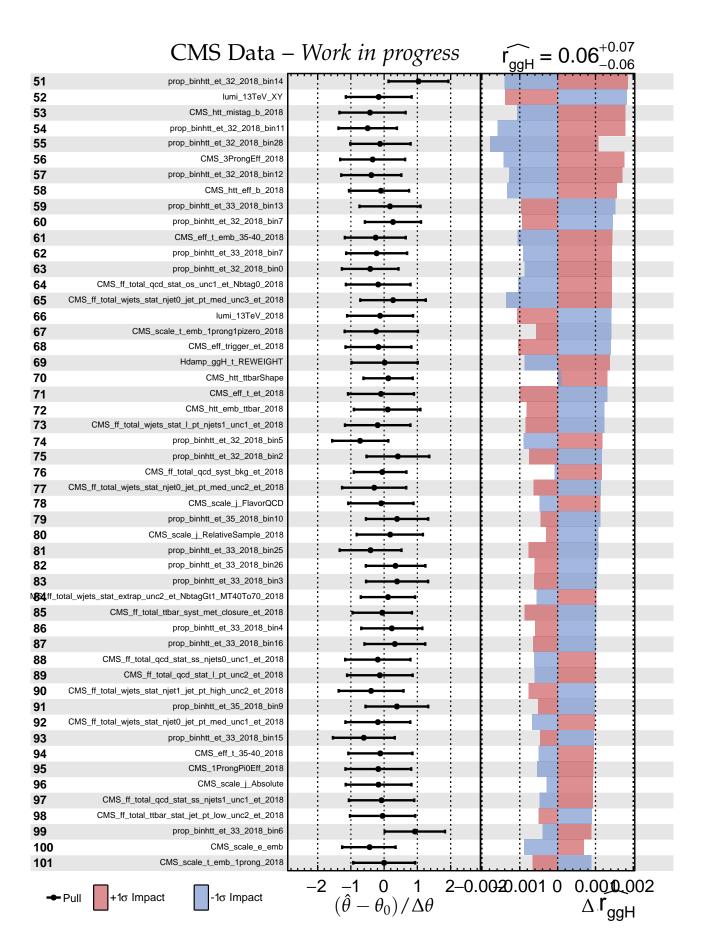
Année 2018, canal $\mu \tau_h$, page 5/6



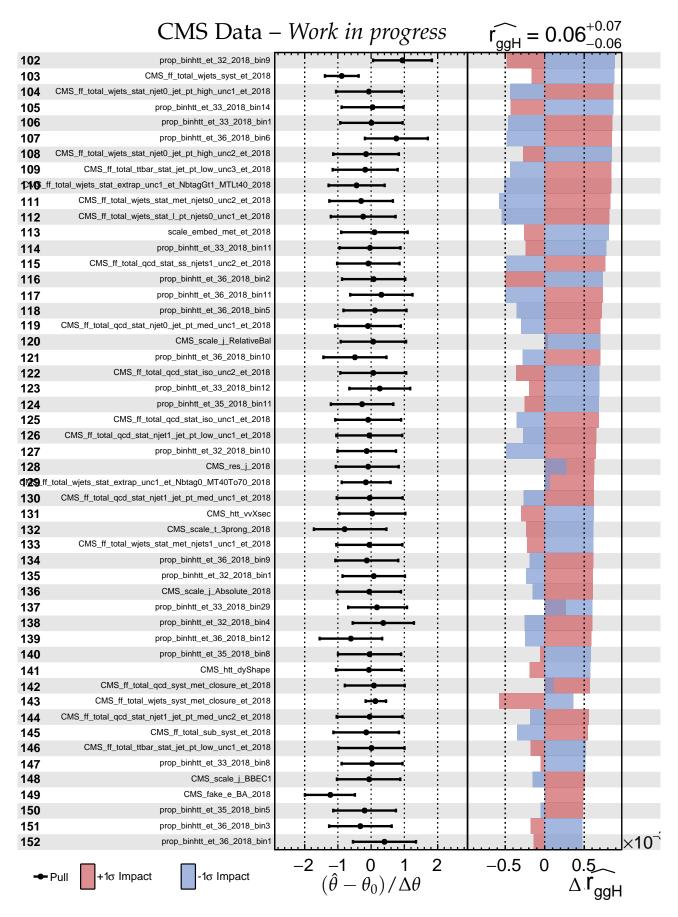
Année 2018, canal $\mu \tau_h$, page 6/6



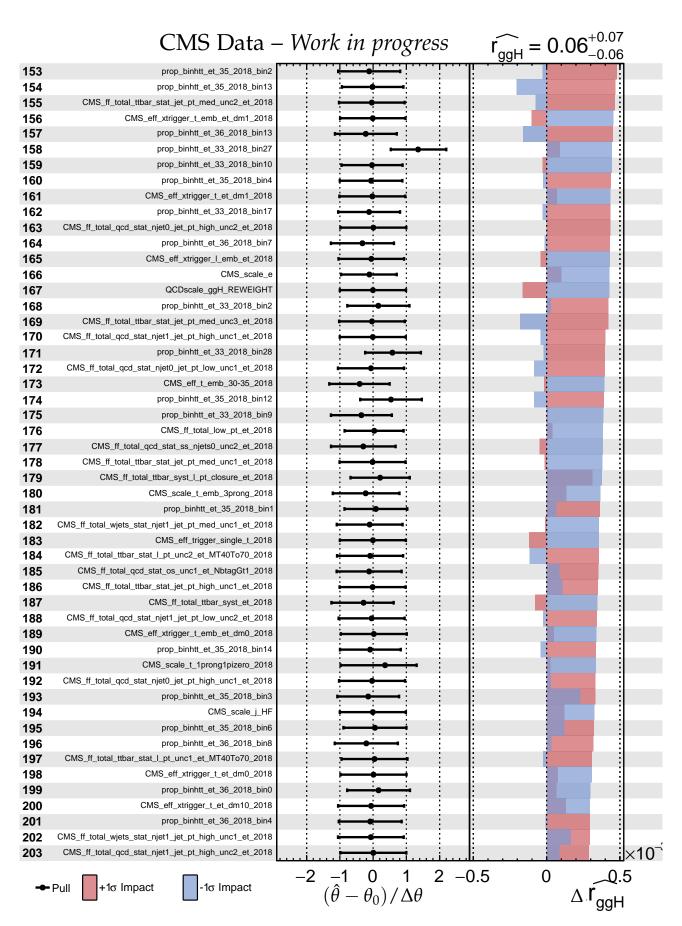
Année 2018, canal $e\tau_h$, page 1/6



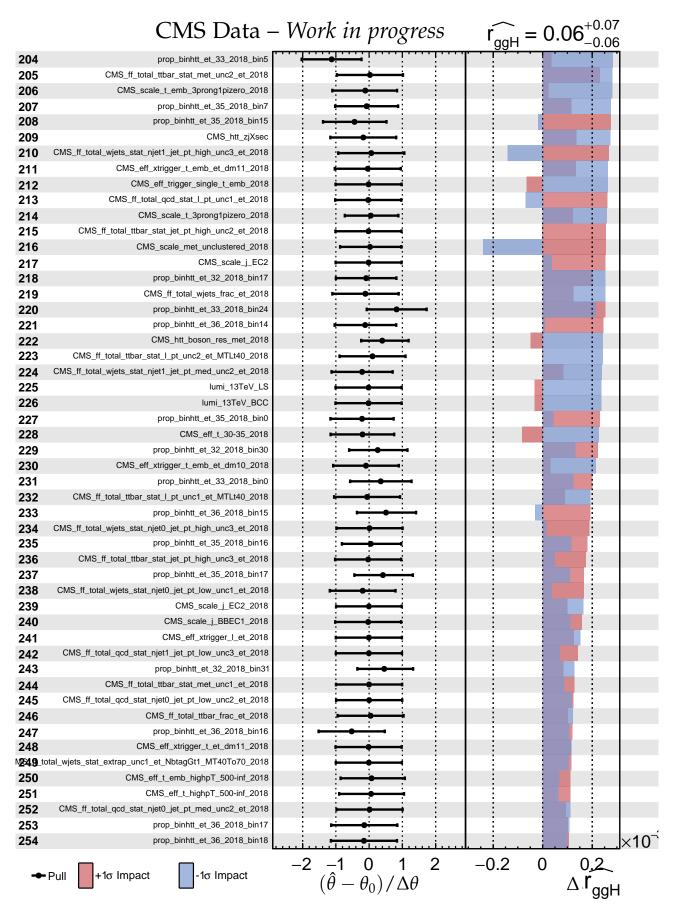
Année 2018, canal $e\tau_h$, page 2/6



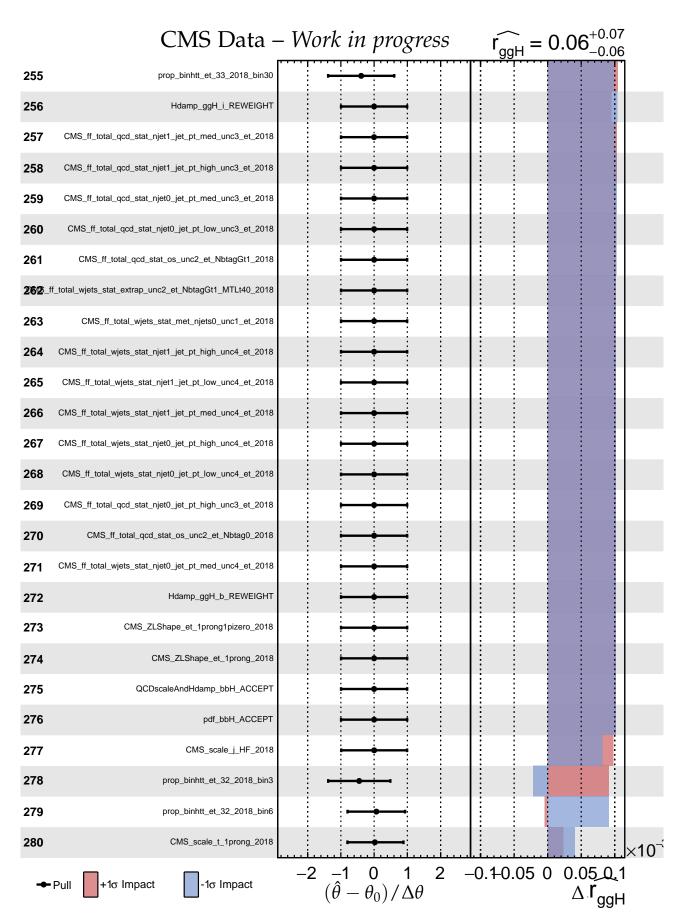
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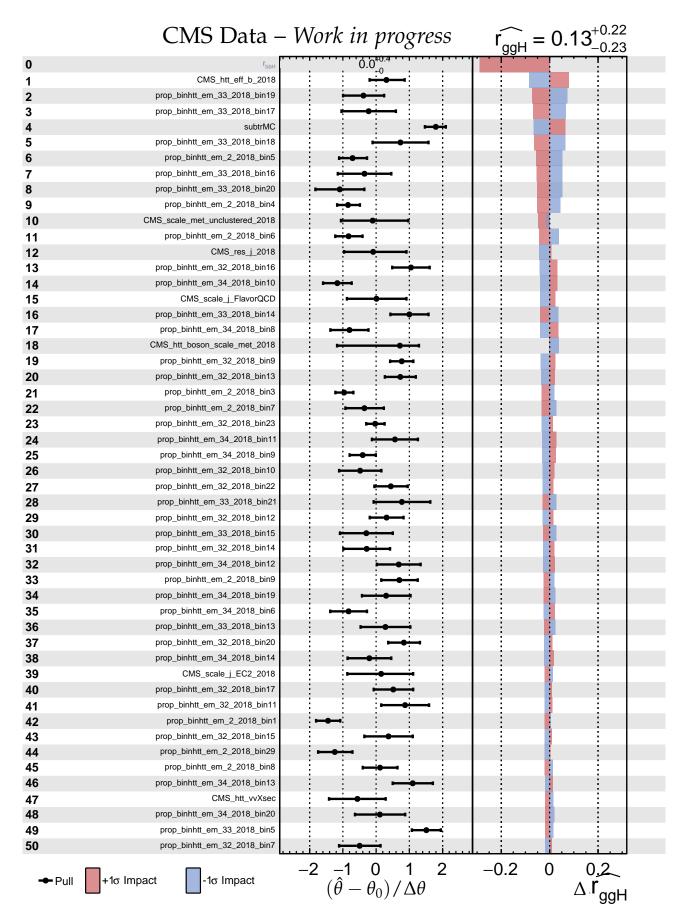
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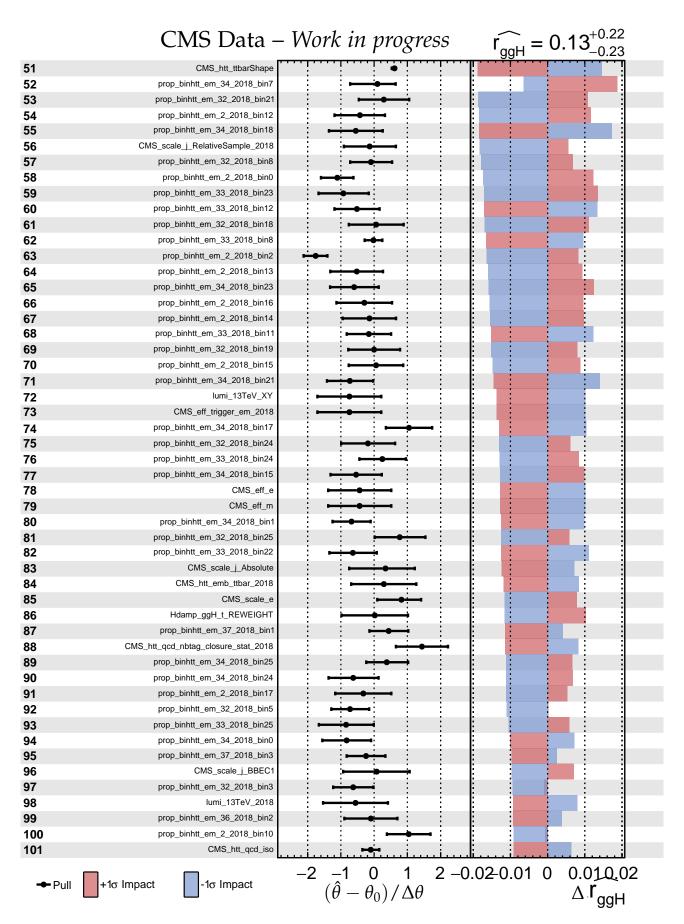
Année 2018, canal $e\tau_h$, page 5/6



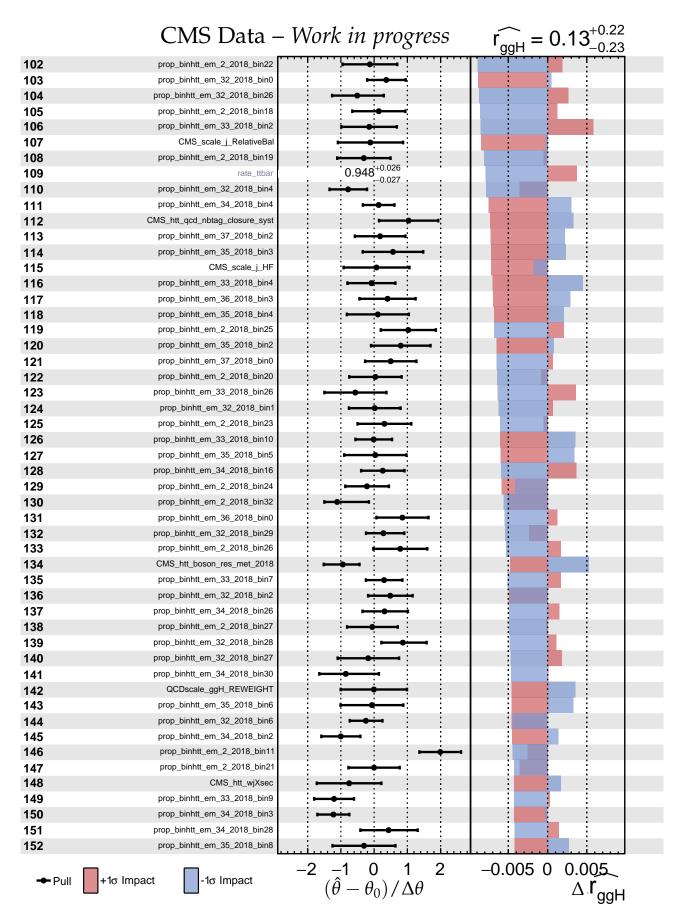
Année 2018, canal $e\tau_h$, page 6/6



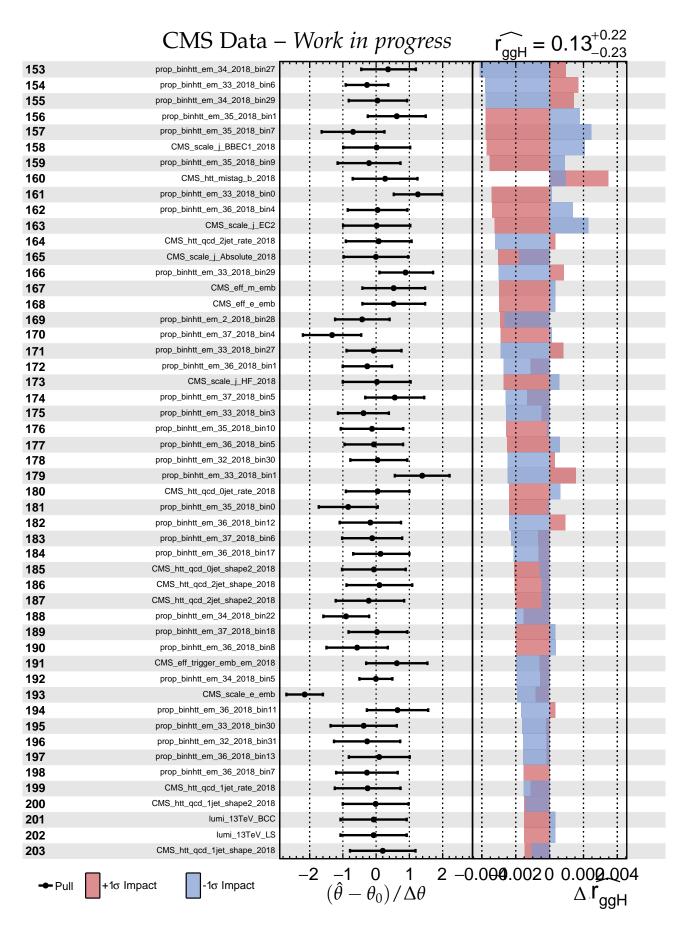
Année 2018, canal $e\mu$, page 1/5



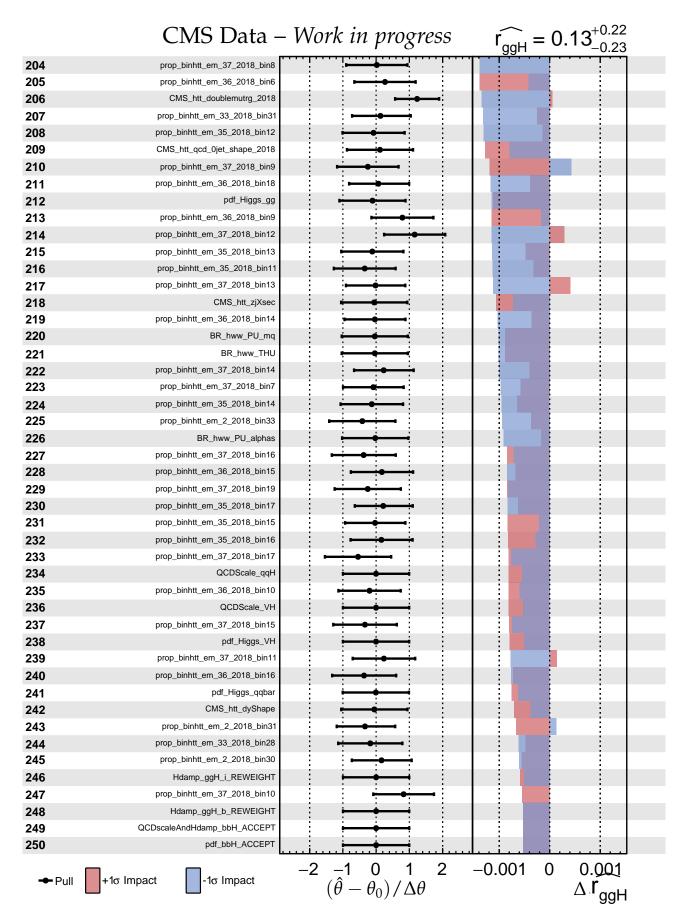
Année 2018, canal $e\mu$, page 2/5



Année 2018, canal $e\mu$, page 3/5



Année 2018, canal $e\mu$, page 4/5



Année 2018, canal $e\mu$, page 5/5