

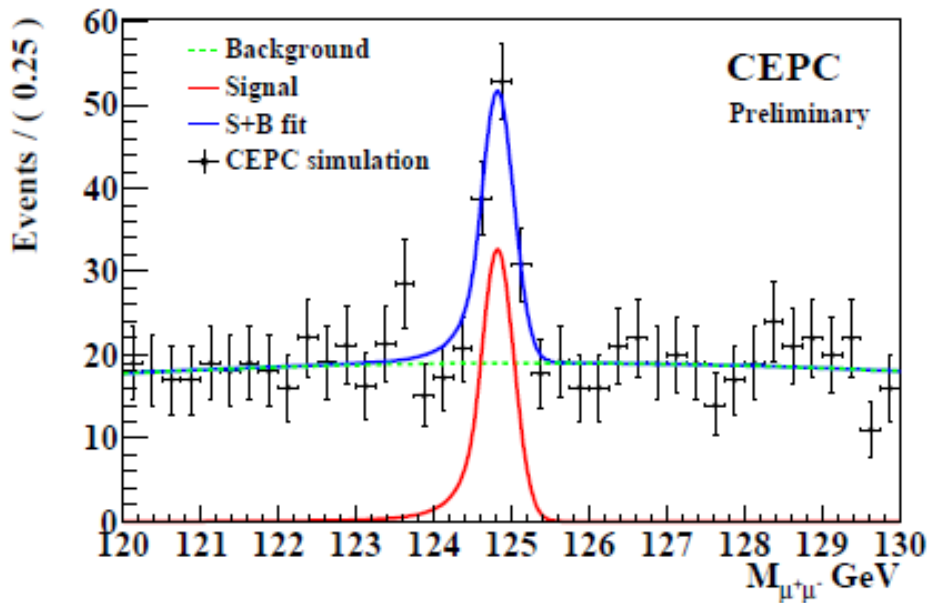


the Impact of the Change of the Magnetic Field on the Analysis of $H \rightarrow \mu\mu$

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2018/1/8

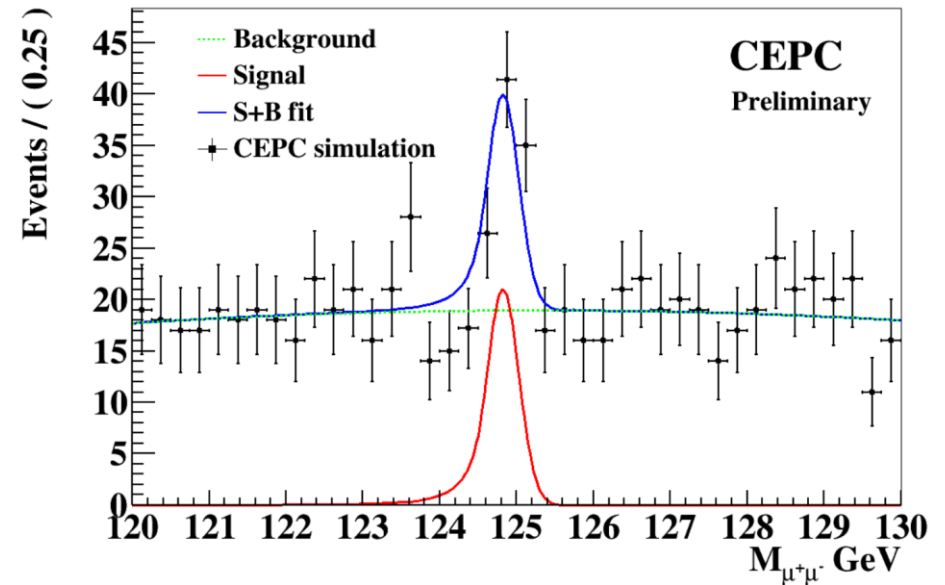
Result before and after the change



Preselection

- $120 < M_{\mu^+\mu^-} < 130$
- $M_{j1} > 4.2$
- $M_{j2} > 2.8$
- $M_{jj} > 76.0$
- $90.9 < M_{\text{recoil}}^{\mu^+\mu^-} < 93.5$
- $20 < P_{T\mu^+\mu^-} < 64$
- $-58 < P_{Z\mu^+\mu^-} < 58$
- $\cos\theta_{\mu^+} > -0.98$
- $\cos\theta_{\mu^-} < 0.98$

- Uncertainty[-16,17]
- Significance=10.8
- N_signal =75.5(expectation=74.2)



- Uncertainty [-23,27]
- Significance=9
- N_signal=48(expectation=45)