

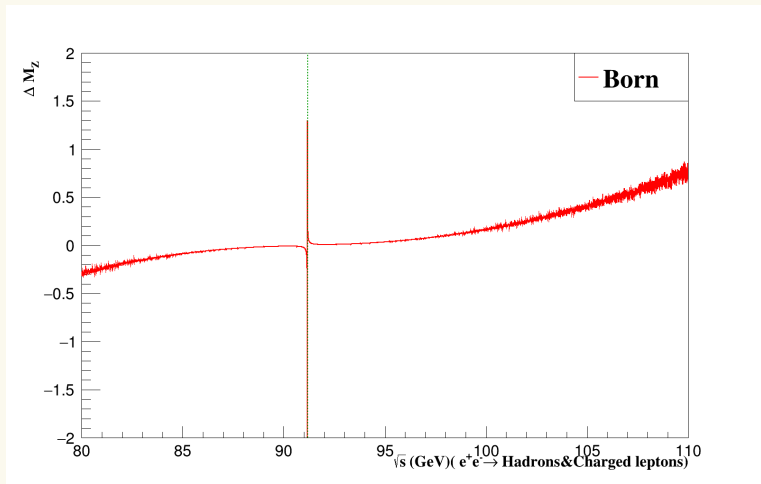
Weekly Report

Shudong Wang

April 15, 2020

Statistical Uncertainty

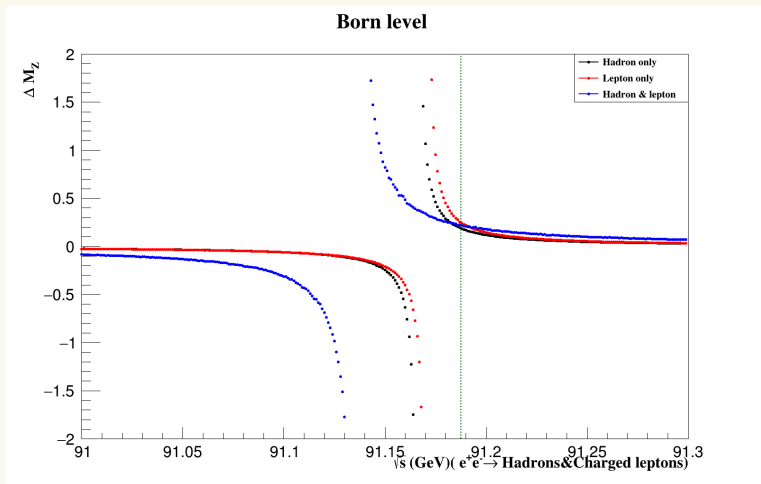
$$\Delta M_Z = \left(\frac{\partial \sigma_{\text{meas}}}{\partial M_Z} \right)^{-1} \Delta \sigma_{\text{meas}}$$



Statistical Uncertainty

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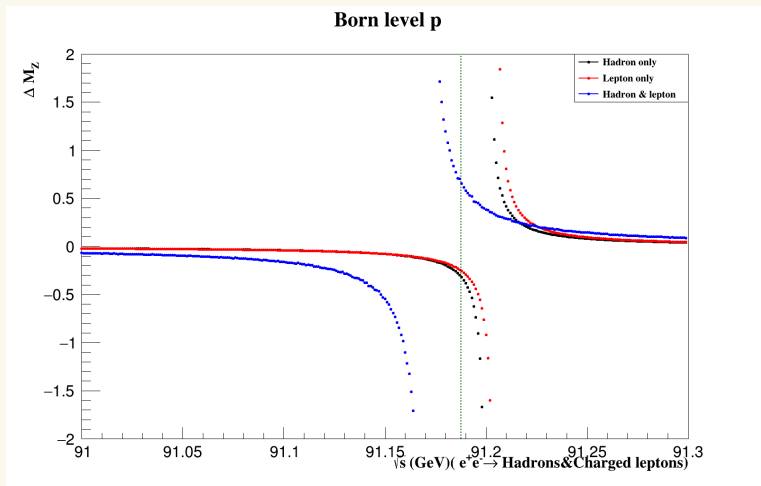
s-dependent decay width (Z exchange term only)



Statistical Uncertainty

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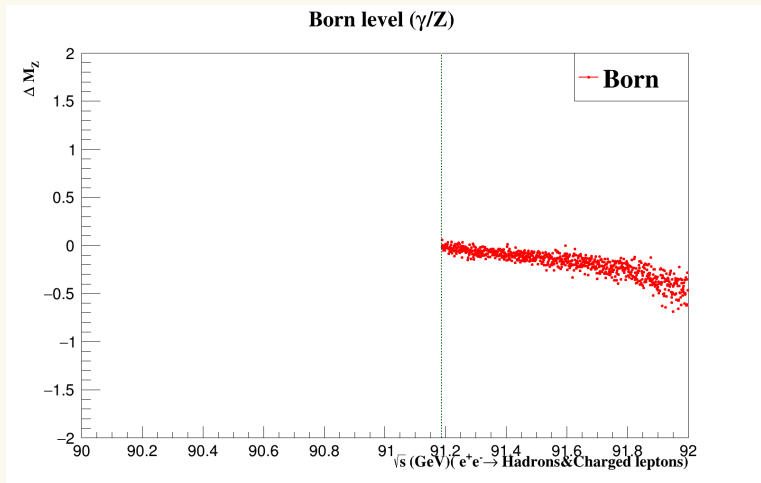
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Statistical Uncertainty

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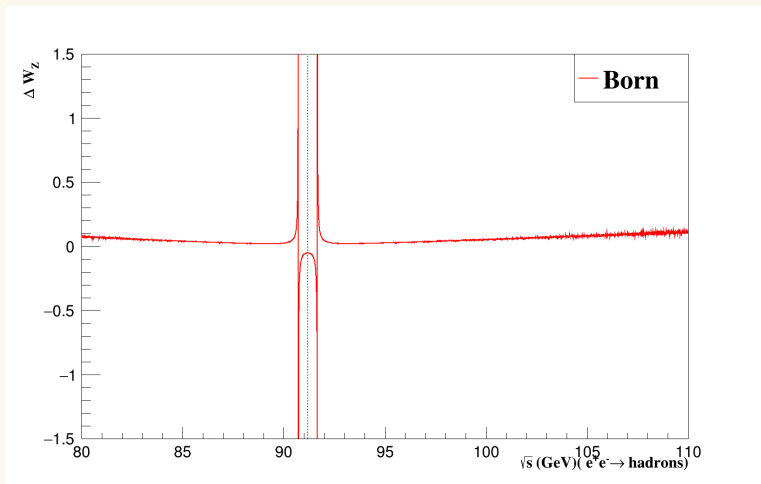
γZ interference term only



Statistical Uncertainty

$$\Delta\Gamma_Z$$

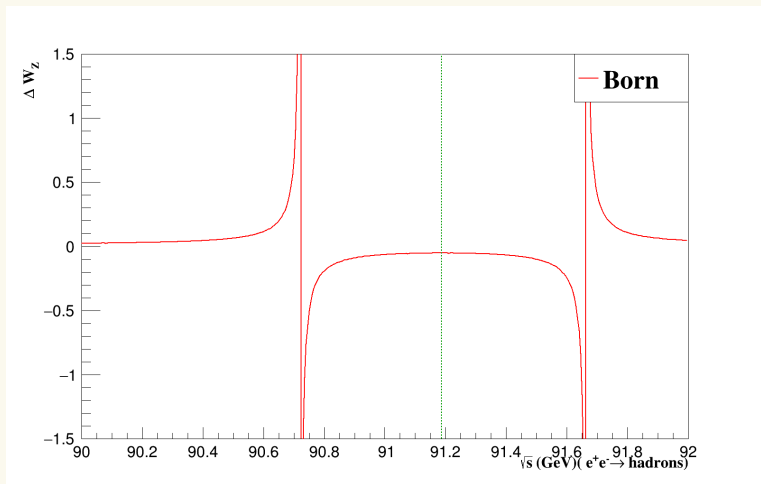
s-dependent decay width



Statistical Uncertainty

 $\Delta\Gamma_Z$

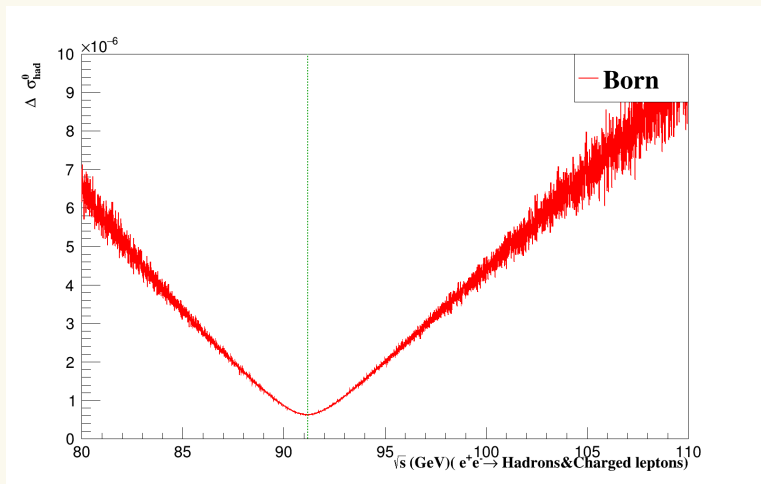
s-dependent decay width



Statistical Uncertainty

$$\Delta\sigma_{\text{had}}^0$$

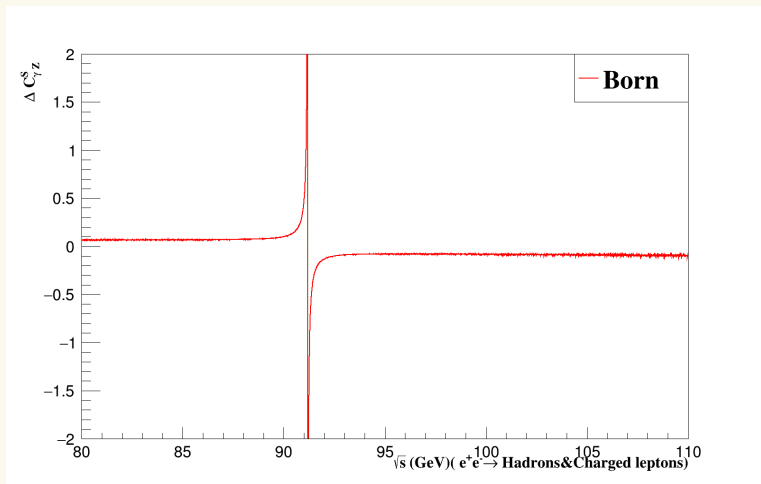
s-dependent decay width



Statistical Uncertainty

 ΔC_{YZ}^S

s-dependent decay width



Statistical Uncertainty

 ΔC_{ZZ}^s

s-dependent decay width

