- Radiative Systematic Uncertainty

H. P. Blok, paper

The differential uncertainty in the L/T separation due to the radiative corrections was estimated by studying the integrated data/SIMC ratio as a function of the missing mass cut for different values of ε. Although this ratio was found to vary up to 1.6% when the cuts were applied, the dependence of the ratio on was relatively small. Based on these studies, a random uncertainty of 0.5% between settings was assigned.

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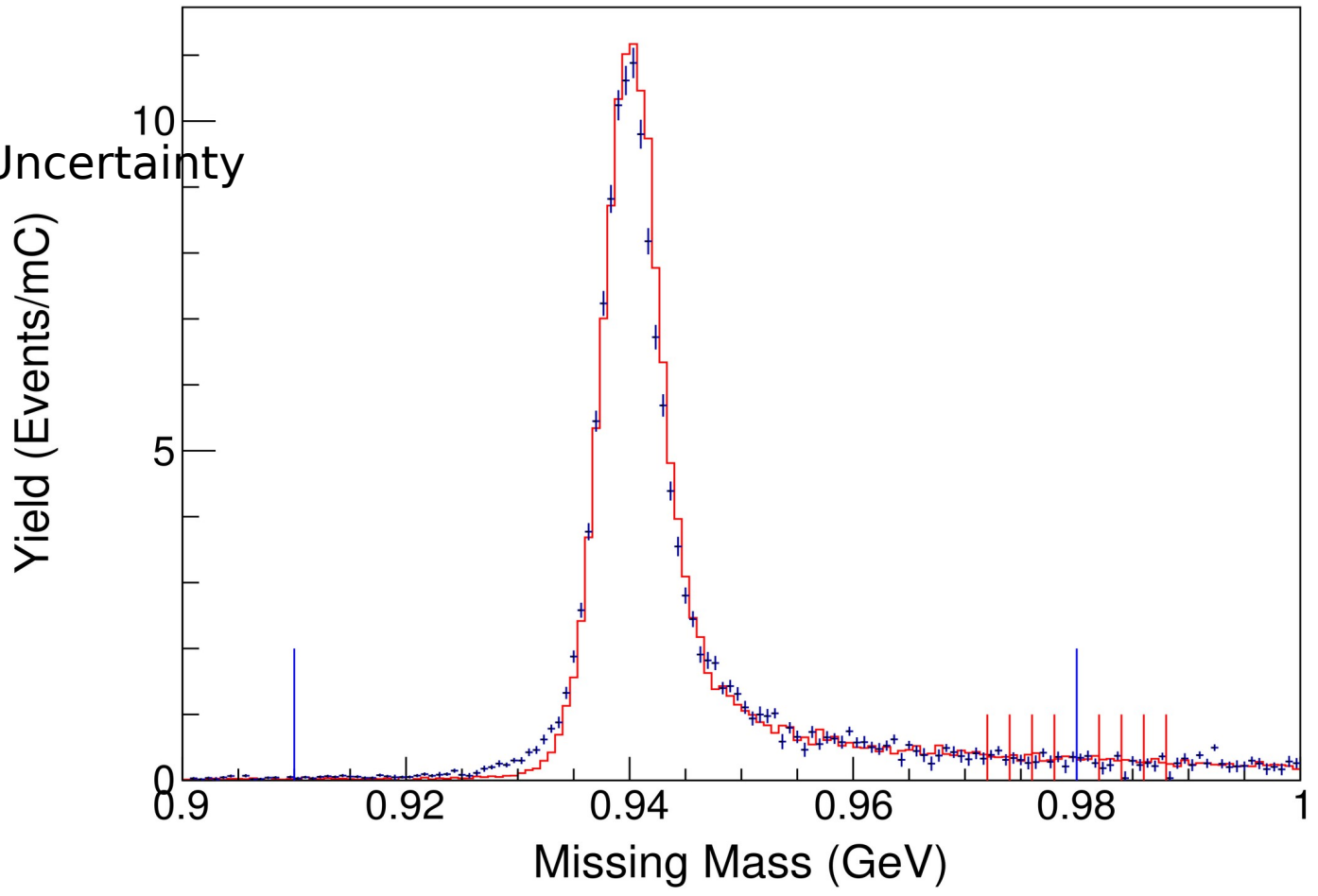

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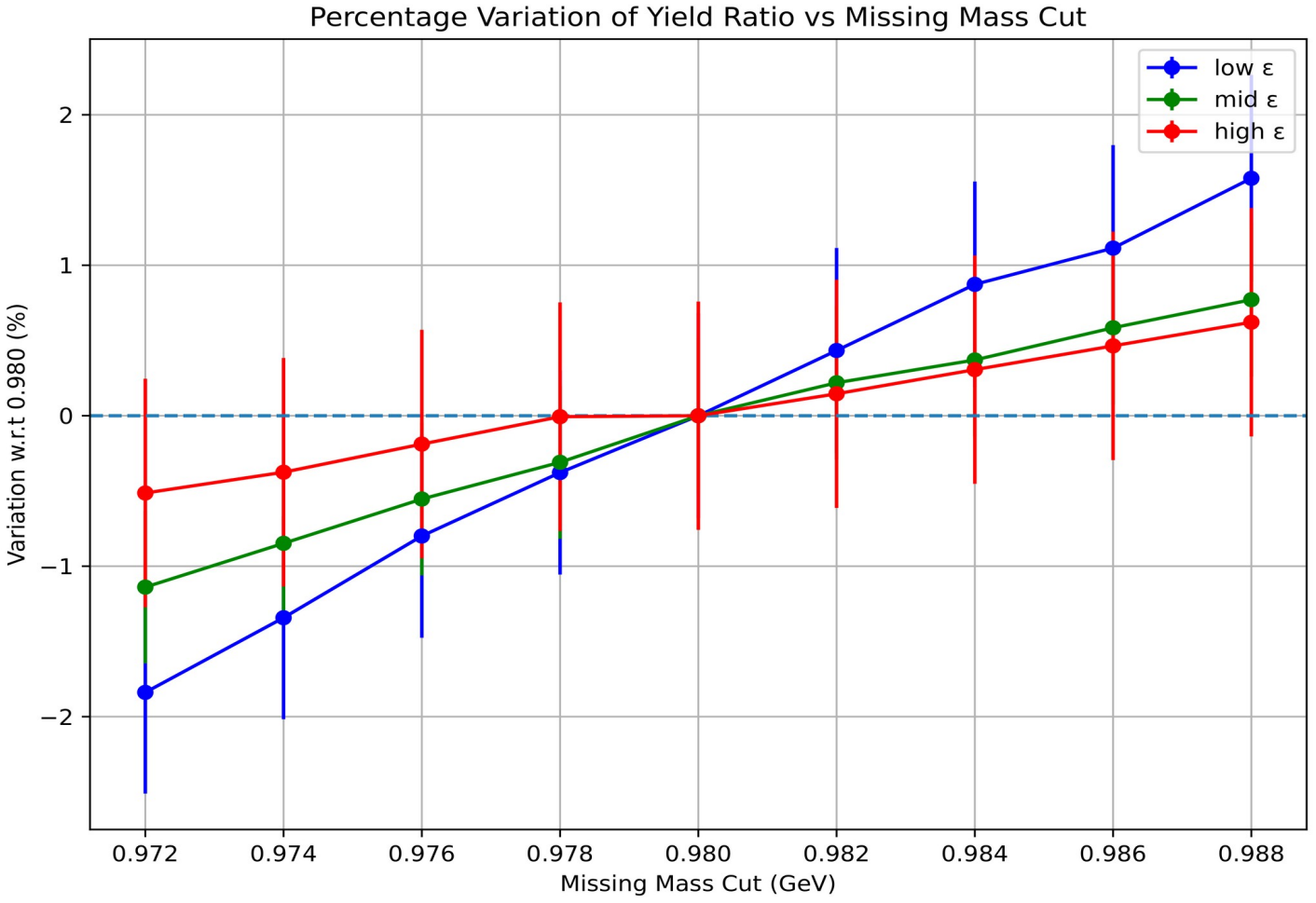

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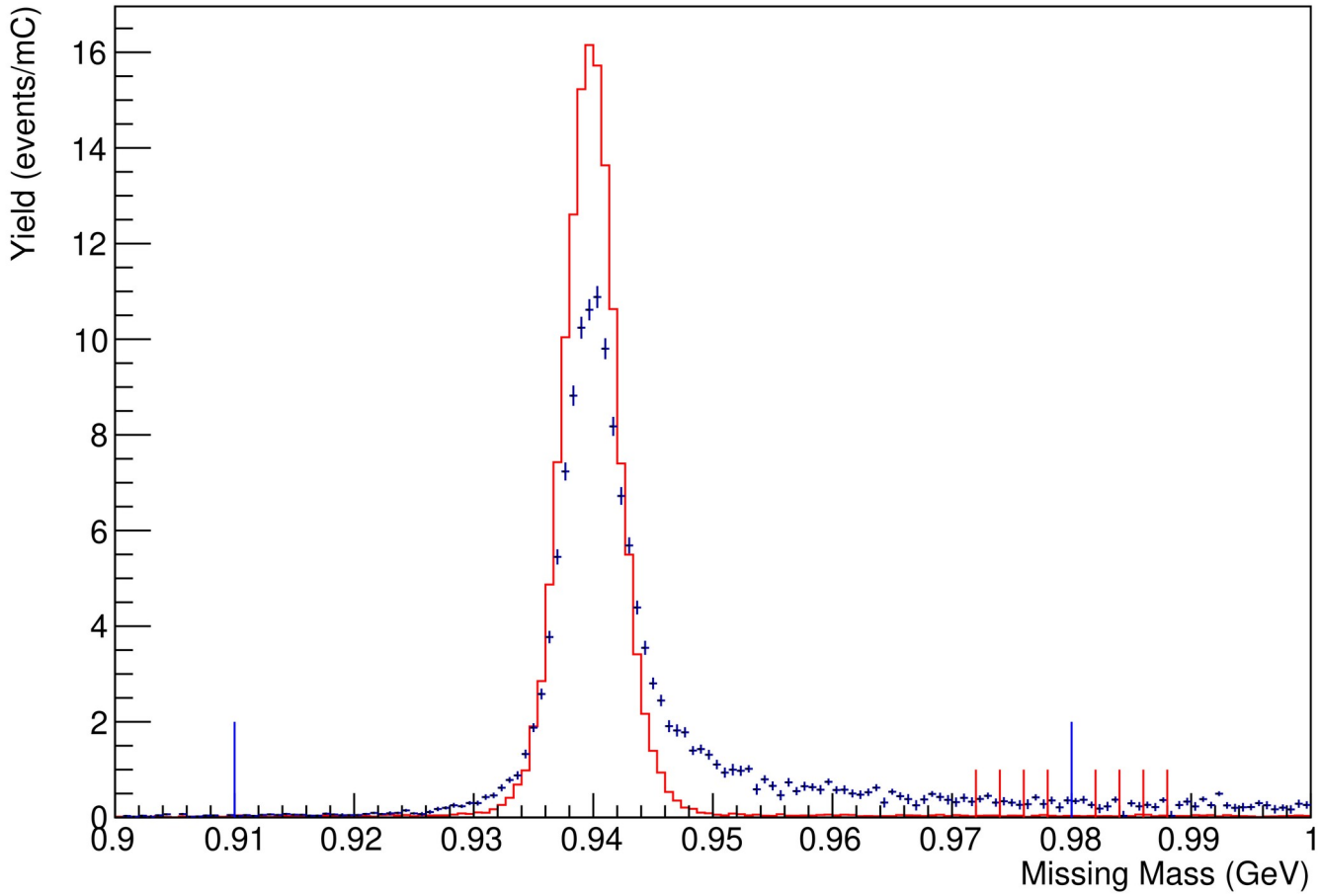

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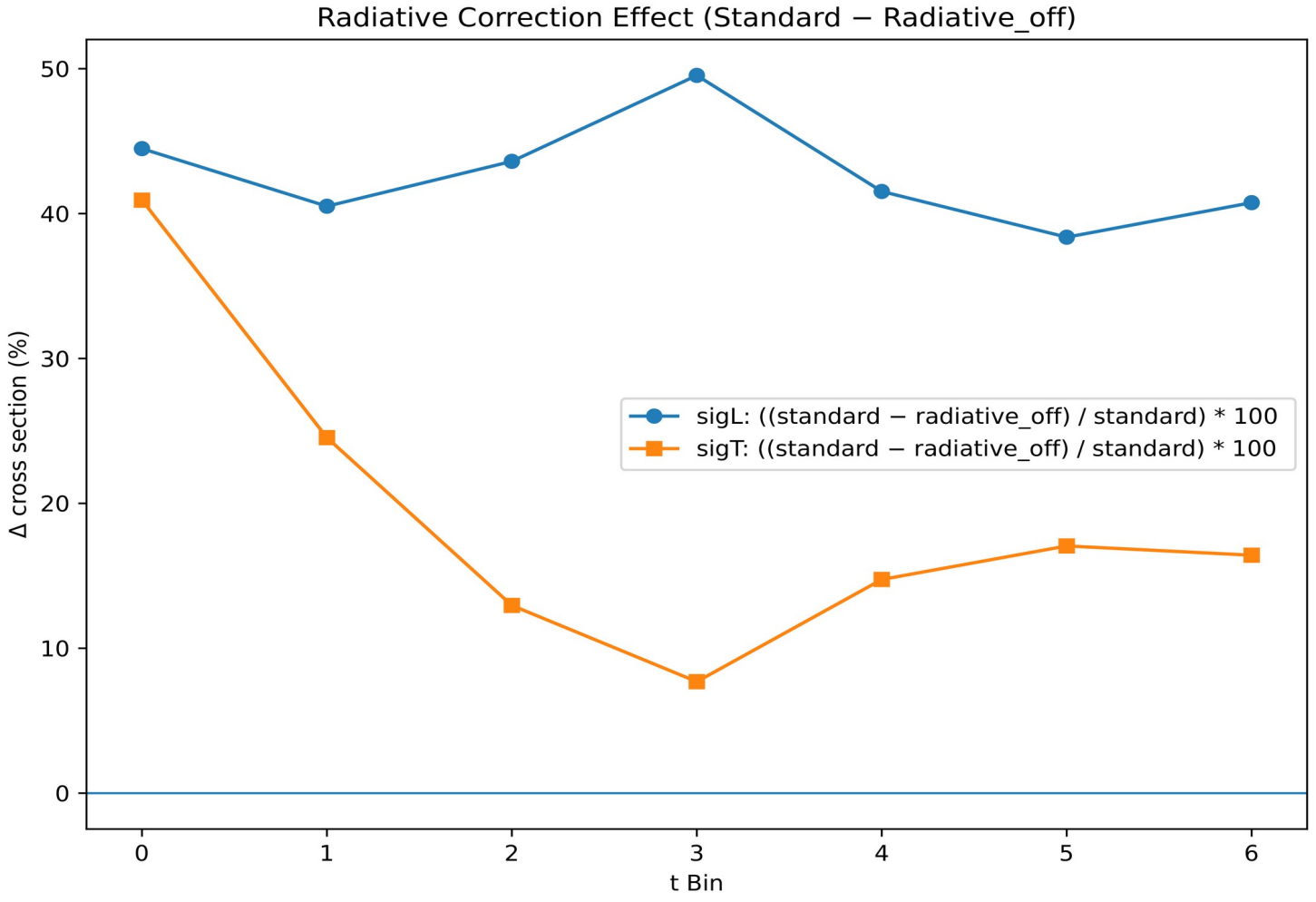

- The modeling of σ_L and σ_T has updated

$$\frac{g^2_{\pi NN}(t)}{(t-m_\pi^2)^2} = g^2_{\pi NN}(m)\frac{(\Lambda^2-m_\pi^2)^2}{(t-m_\pi^2)^2(\Lambda^2-t)^2} = \frac{a}{(t-m_\pi^2)^2(\Lambda^2-t)^2}$$

$$\Lambda = 0.44$$