

A_LR measurement using e⁺e⁻ to gamma Z

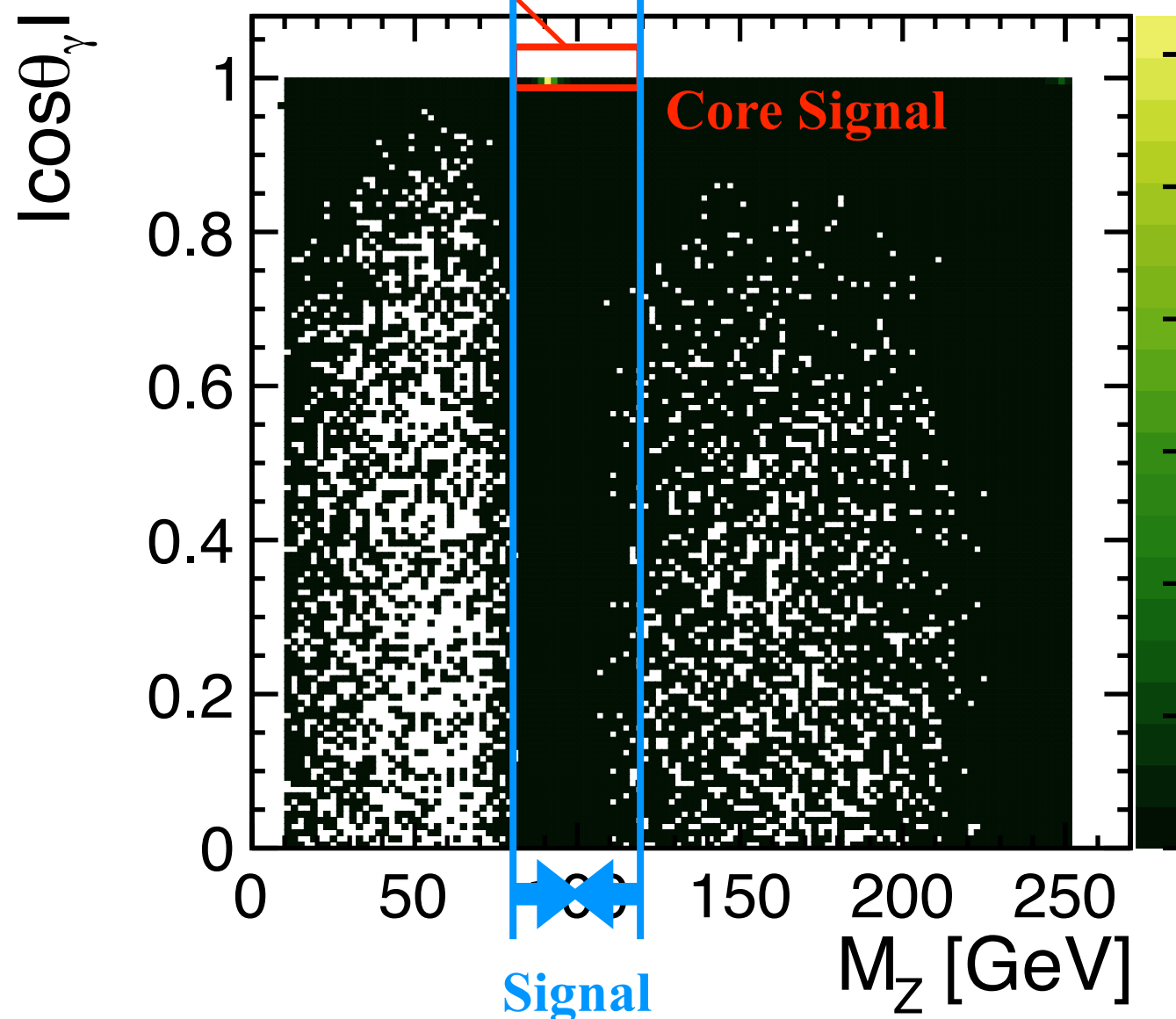
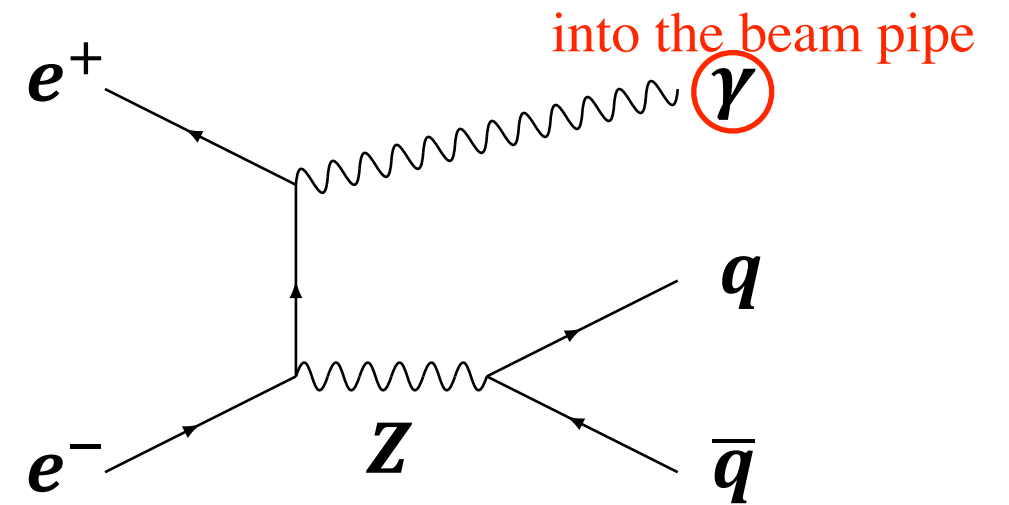
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Signal event definition

Signal event: radiative return with photon escaping into beam pipe

- A. $80 \text{ GeV} < M_{Z(\text{truth})} < 120 \text{ GeV}$
- B. $|\cos\theta_{\gamma(\text{truth})}| > 0.999$



eLpR

Signal event definition

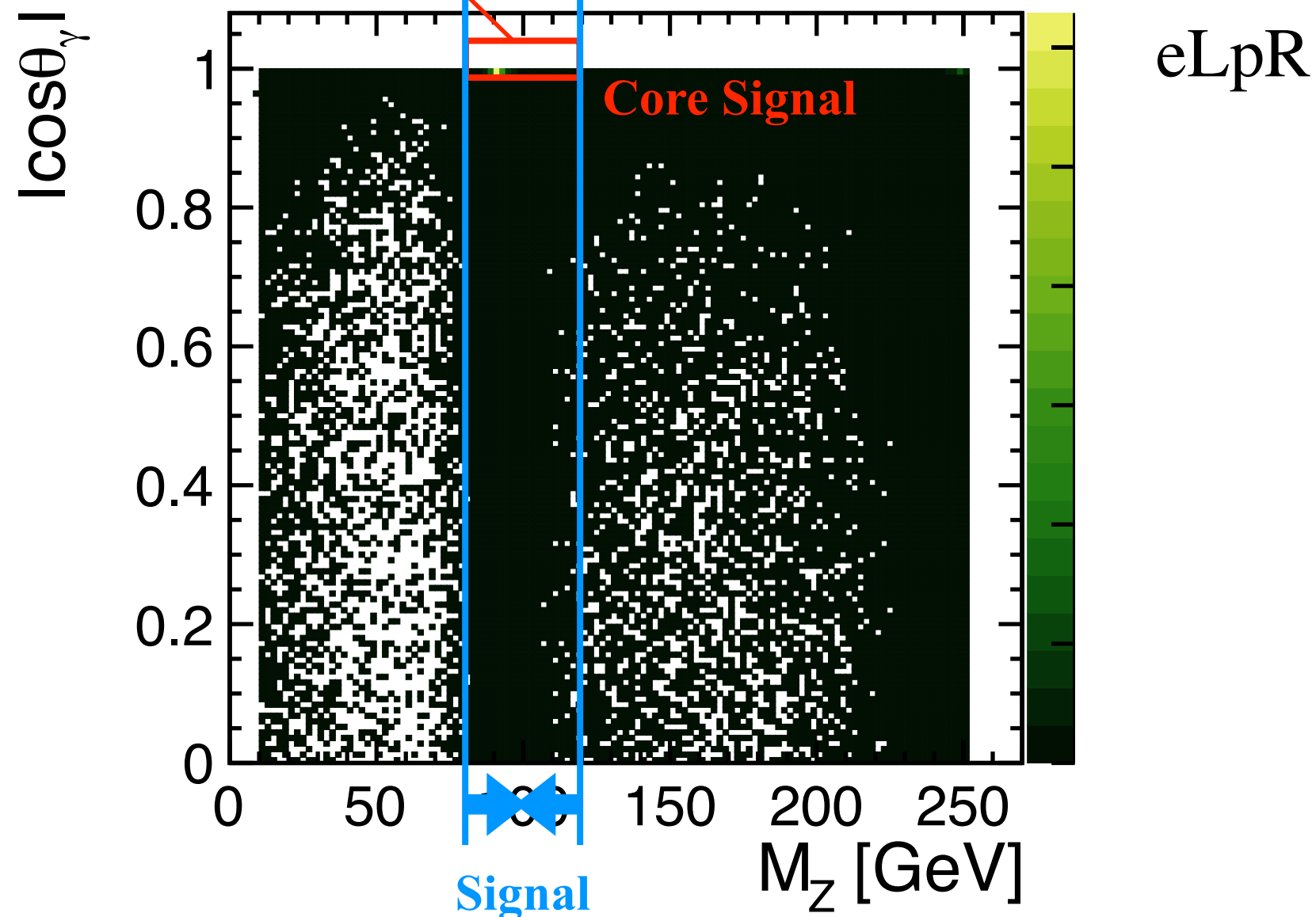
Signal event: radiative return with e^+

into the beam pipe

If errors of η , L , and polarization are negligible,

$$A_{LR} = 0.22810 \pm 0.00017 \text{ (stat) signal (80 to 120 GeV)}$$

$$A_{LR} = 0.22827 \pm 0.00017 \text{ (stat) core signal (80 to 120 GeV)}$$



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