Search for $\ell\gamma + X$ in 929 pb^{-1}

Motivation

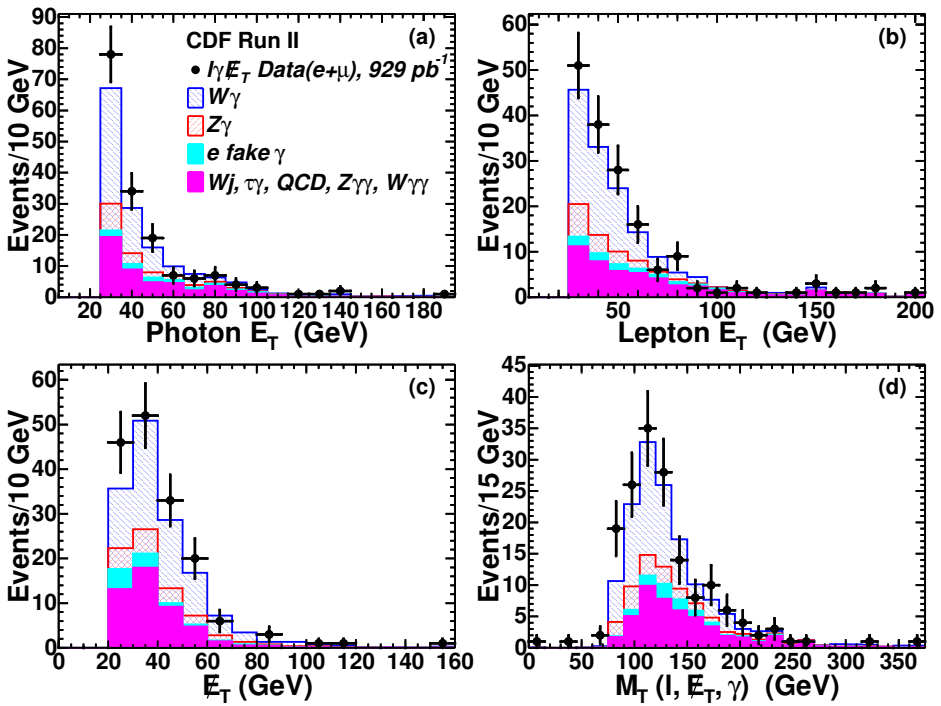
- Run I $ee\gamma\gamma\not{E}_T$ (10^{-6} expected, 1 observed)
- $\ell\gamma\not{E}_T$: 7.6±0.7 expected, 16 observed, 2.7σ

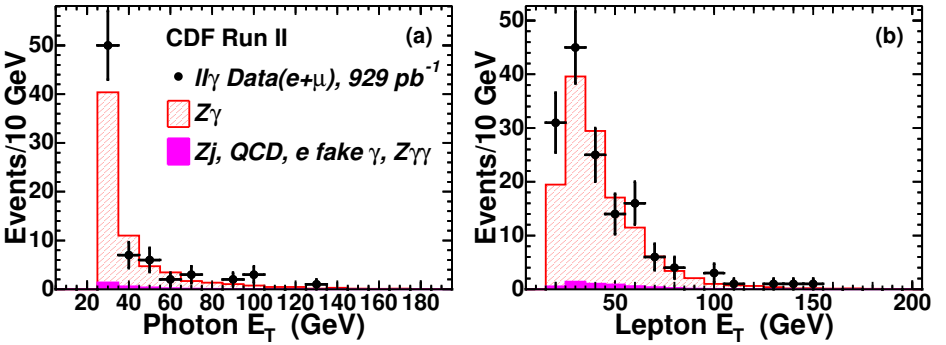
Analysis

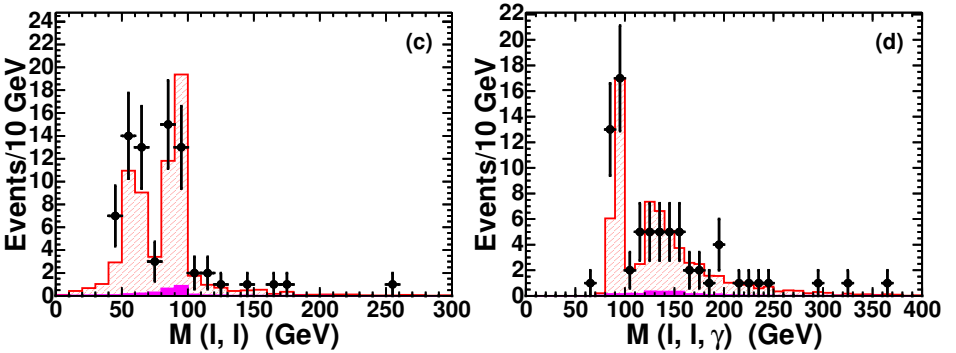
- Signature-Based search
- *a priori* defined cuts (same as in Run I)
- MadGraph, CompHep and Baur MC

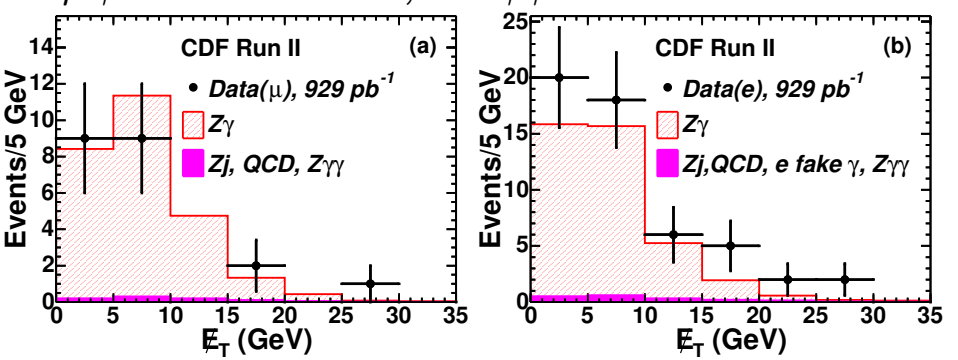
Results

$\ell\gamma\not{E}_T$	$e\gamma\not{E}_T$	$\mu\gamma\not{E}_T$	$(e+\mu)\gamma\not{E}_T$
Predicted	94.8 ± 8.1	55.7 ± 7.1	150.6 ± 13.0
Observed	96	67	163







$\ell\ell\gamma$	$ee\gamma$	$\mu\mu\gamma$	$\ell\ell\gamma$
Total	39.0 ± 4.8	26.1 ± 3.1	65.1 ± 7.7
Observed	53	21	74

0 $e\mu\gamma$ vs. 1.0 ± 0.3, 0 $\ell\gamma\gamma$ vs. 0.62 ± 0.15