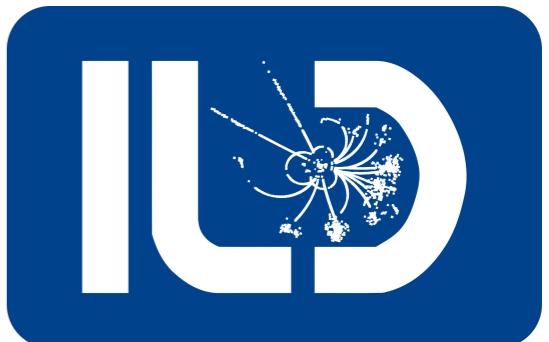


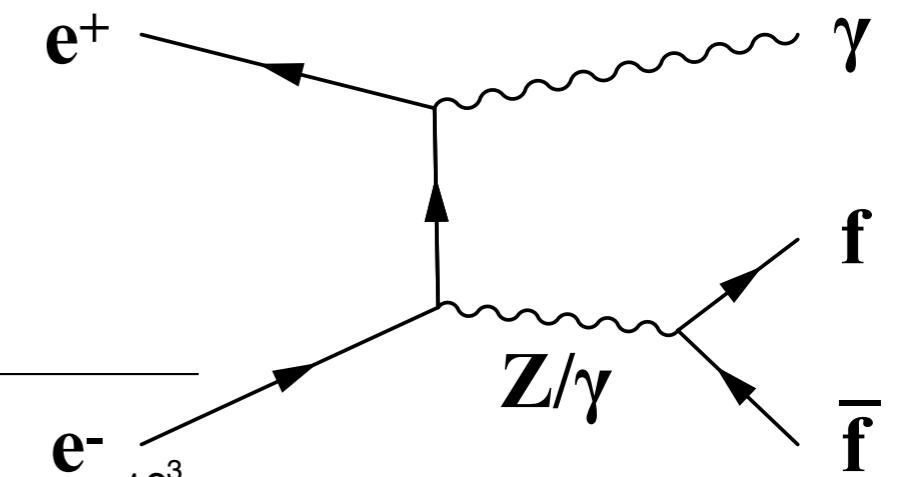
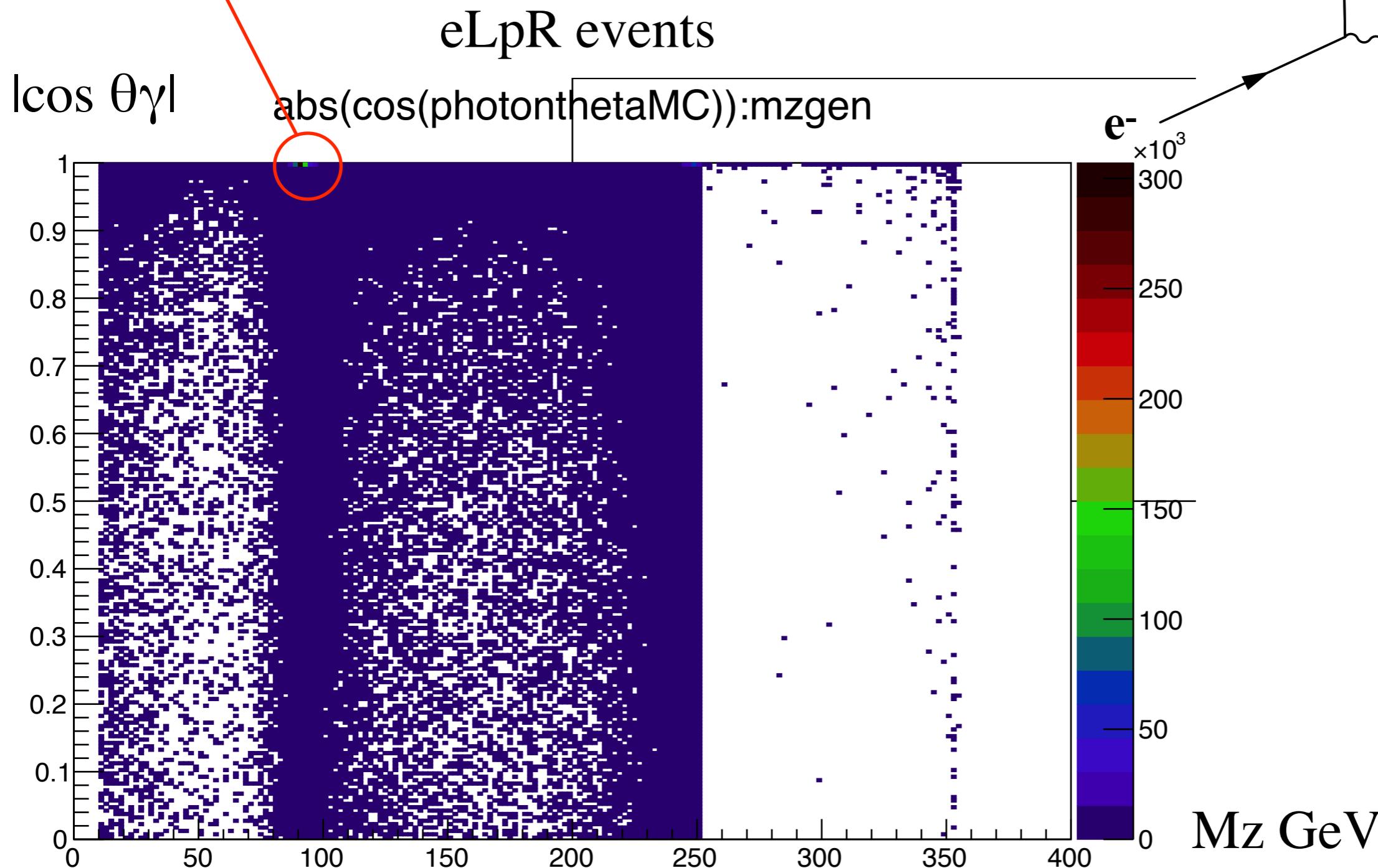
Recent progress on e+e- \rightarrow gammaZ analysis

Takahiro Mizuno



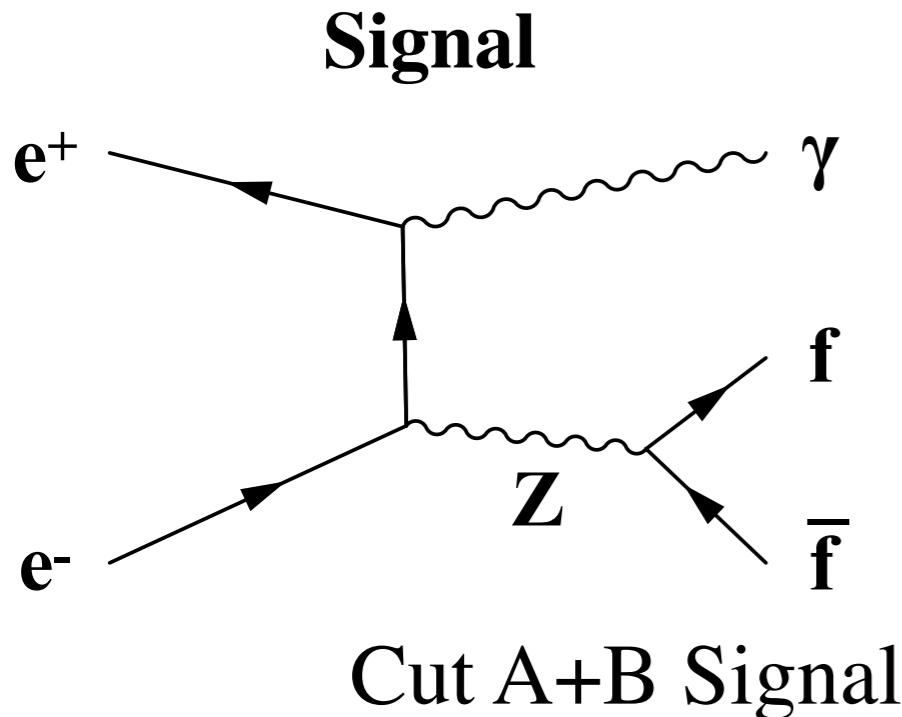
Signal event definition

Signal event: radiative return



Efficiency Table

Signal & Background efficiencies



Signal event ($e^+e^- \rightarrow \text{gamma } Z$):
A. $80 \text{ GeV} < M_{Z(\text{truth})} < 100 \text{ GeV}$
B. $|\cos\theta\gamma_{(\text{truth})}| > 0.999$

	$2f_z_h$ e_{LPR}	$2f_z_h$ e_{RPL}
Before selection	1.000	1.000
#Photon = 0	0.957	0.956
$50 \text{ GeV} < M_Z < 160 \text{ GeV}$	0.939	0.939

	4f_sw_sl e_{LPL}	4f_sw_sl e_{LPR}	4f_sw_sl e_{RPL}	4f_sw_sl e_{RPR}	4f_sze_sl e_{LPL}	4f_sze_sl e_{LPR}	4f_sze_sl e_{RPL}	4f_sze_sl e_{RPR}	4f_sznu_sl e_{LPR}	4f_sznu_sl e_{RPL}
Before selection	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
#Photon = 0	0.861	0.923	0.972	0.862	0.377	0.446	0.393	0.367	0.993	0.994
$50 < M_Z < 160 \text{ GeV}$	0.721	0.488	0.461	0.716	0.043	0.053	0.055	0.044	0.668	0.613

Recent Progress

- Many backgrounds survive.
 - > New cut criteria
 - nPhoton
 - 1. Visible energy e.g. 120 to 160 GeV
 - 2. Visible particles direction e.g. $|\cos z| > 0.95$
 - 3. ycut
 - Mz
 - Summarizing JES calibration results and making analysis note