A_LR measurement using e+e- to gamma Z

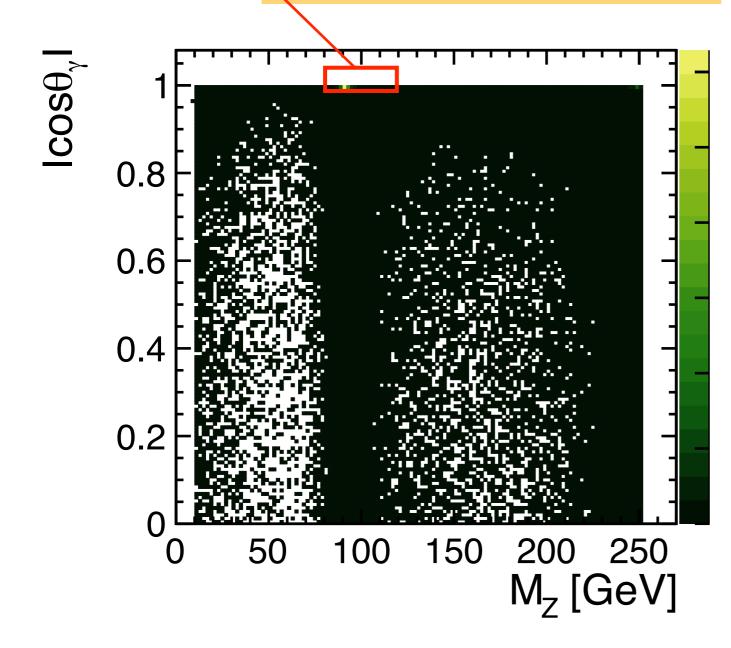
MIZUNO, Takahiro

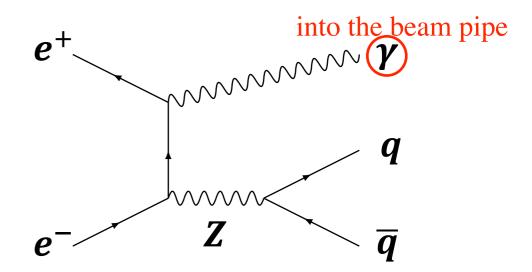
The Graduate University for Advanced Studies, SOKENDAI

Signal event definition

Signal event: radiative return with photon escaping into beam pipe

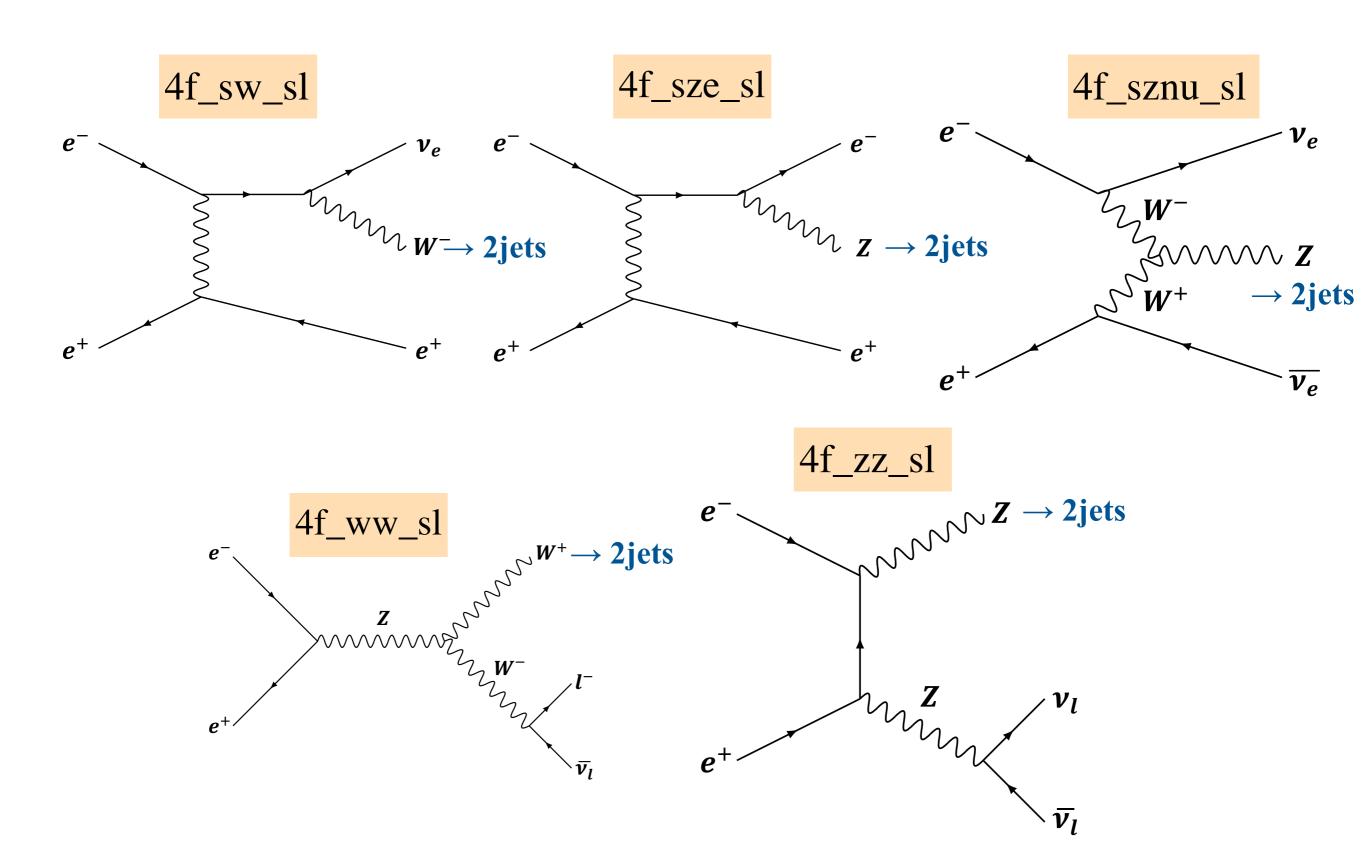
A. $80 \text{ GeV} < \text{Mz}_{(\text{truth})} < 120 \text{ GeV}$ B. $|\cos\theta\gamma_{(\text{truth})}| > 0.999$





eLpR

Major backgrounds



Cut Table

- 2f_l and all 4f samples are included as background.
- 2f h outside the preselection has not been implemented yet.

Number of events with $(P_e-, P_e+) = (-0.8, +0.3)$ polarization

Polarization: (e-,e+) = (-0.8,+0.3)						Reduct	Reduction Table			
 Process	:	2f_1	4f_l	4f_s	l 4f_h	4f_h	BG	11h	Signal	
Cross Section	:	21944	52778.6	37282.4	22797.6	0	59325.8	77324.4	44693.5	
Generated	:	0	0	0	0	0		0	0	
Expected	:	1.97496e+07	4.75008e+07	3.35542e+07	2.05178e+07	0	5.33932e+07	6.9592e+07	4.02242e+07	
 Cut0	:	1.27298e+07	9.34267e+06	1.72468e+07	1.51204e+07	0	5.44396e+07	6.9592e+07	3.25284e+07	
 Cut1	:	1.01022e+07	5.9585e+06	1.59594e+07	1.47615e+07	0	4.67816e+07	5.42706e+07	3.11092e+07	
 Cut2	:	2.55345e+06	1.45781e+06	3.21616e+06	4217.98	0	7.23164e+06	2.56448e+07	2.4446e+07	
 Cut3	:	1.93262e+06	365608	525767	3516.71	0	2.82751e+06	2.55688e+07	2.44239e+07	
 Cut4		1.85742e+06	356729	525358	3516.68	0	2.74303e+06	2.54534e+07	2.44238e+07	

2f_z_l supression

