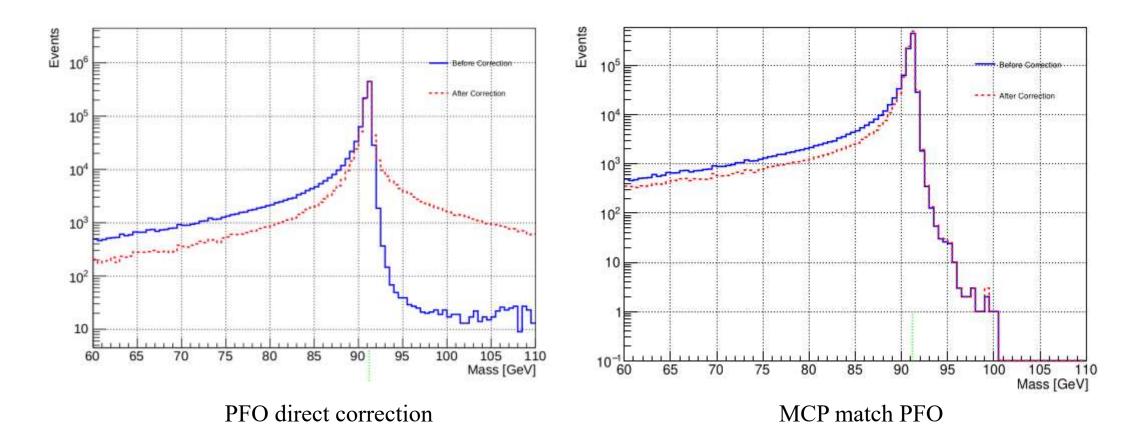
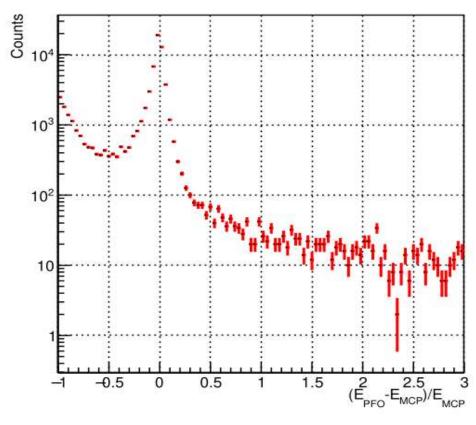
ee->mumu forward-backward asymmetry at CEPC

Jiawei wan , Shuo Han , Lei Zhang

- Directly searching for the closest neutral PFO near the muon in PFO leads to an abnormality on the right side of the Z peak.
- Using neutral particles near the muon in MCP to match neutral particles in PFO and then applying corrections results in a normal Z peak.



- After matching, calculate $\Delta E/E$ for neutral particles.
- In the range of -1 to 0.5, PFO misidentifies neutral particles, typically such photons have very low energy.



Counts 10 1.5

PFO direct correction

MCP match PFO

- Identical neutral particles appear in PFO.
- A single event in PFO contains three muons.

PFO Muons	3 (2):											
		Px		-				E		1		
		42.6425								1		
0	+1	-43.9425	- 1	9.5/98	6	.6587		45.465	DT			
1	-1	24.7940)	5.3336	-3	.6999	1	25.629	96			
Neutral r	particles	near PFO Mu	on [0]:									
_	in $\Delta R < 0$											
			thin AD	0.3								
No neutra	ar partici	es found wi	Ithin AR <	0.3								
Neutral p	particles	near PFO Mu	uon [1]:									
Neutrals	in ΔR < 0	.3 cone:										
IDX PI	ID	Px	РУ	1	Pz		1	E	- 1	ΔR		L
			-				-					
2	22	19.0837	4.	2488	-2.8	246		19.7539	1	0.0073	T	
3	22	10 0007		0400								
		19.003/ 1	4.	2488 I	-2.8	246 I		19.7539		0.0073		

