

Images

February 5, 2026

The mass of the Z boson was found to be $91.142 \pm 0.009 \pm 0.003$ GeV where the first error is statistical and the second systematic
The width of the Z boson was found to be $2.001 \pm 0.025 \pm 0.001$ GeV where the first error is statistical and the second systematic
The correlation coefficient was 0.065

	Mass	Width
Calibration error	-0.00323	0.00038
Smearing error	-0.00007	0.00118

Table 1: Z Systematic error on mass and width

	Mass	Width
Values	91.14187	2.00069
Statistical error	0.00876	0.02512

Table 2: Z Mass and width results with statistical error

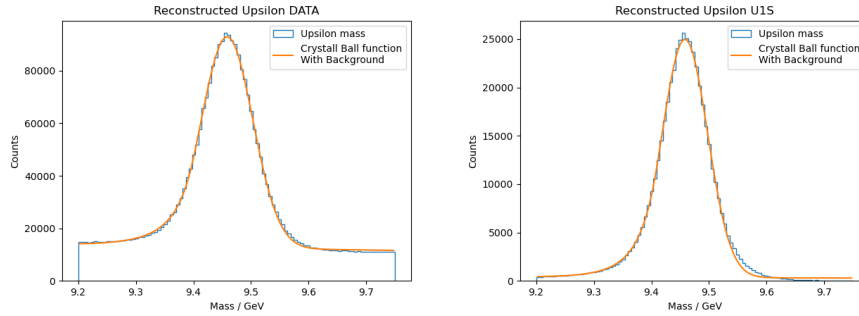


Figure 1:

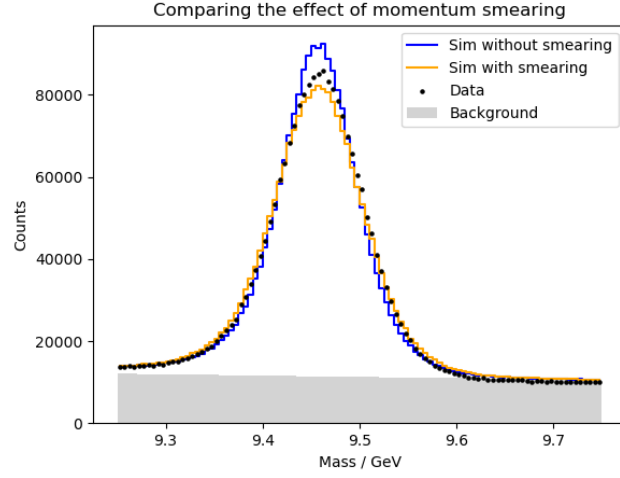


Figure 2:

χ^2	ndf
405.71	48

Table 3: minimum χ^2 and number of degrees of freedom

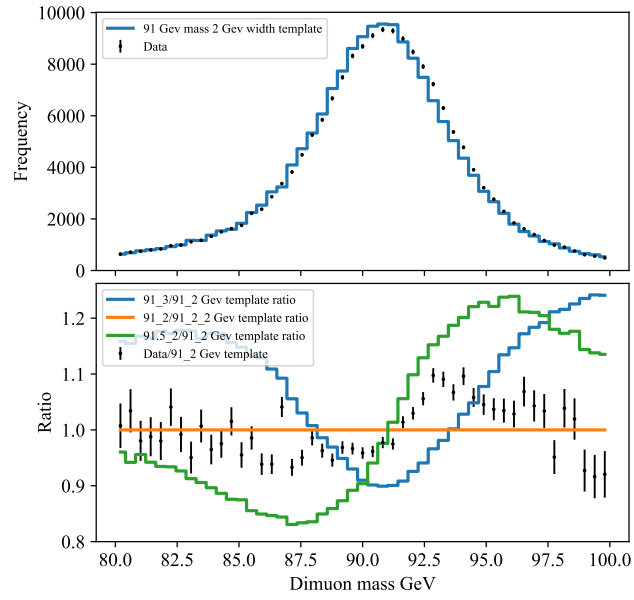


Figure 3:

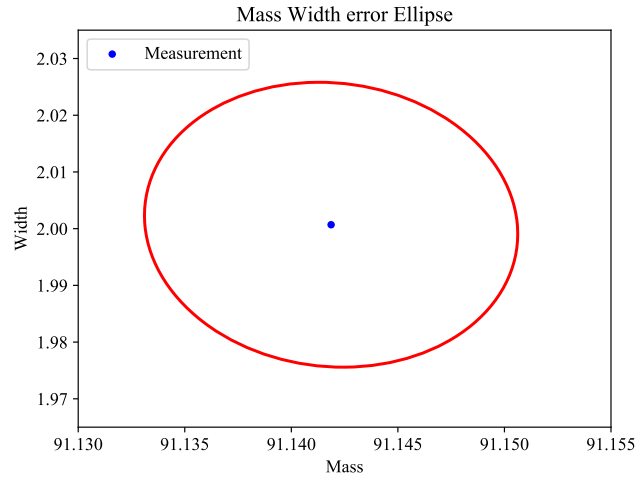


Figure 4: