

Table 6: Elements of the unfolding matrix obtained from the PYTHIA $Z \rightarrow \mu^+ \mu^-$ sample at $\sqrt{s} = 7$ TeV, used to correct the data for the detector resolution. The generated invariant mass is given in the columns and the reconstructed in the rows. Note that no unfolding for FSR is applied in this analysis.

$m_{\mu\mu}$ [GeV]	60 -72	72 -81	81 -86	86 -88	88 -89	89 -90	90 -91	91 -92	92 -93	93 -94	94 -98	98 -120	120 -160
60 -72	0.959	0.027	—	—	—	—	—	—	—	—	—	—	—
72 -81	0.038	0.886	0.044	—	—	—	—	—	—	—	—	—	0.001
81 -86	0.001	0.077	0.744	0.100	0.010	0.002	—	—	—	—	—	0.001	0.001
86 -88	—	0.003	0.150	0.483	0.150	0.030	0.008	0.003	0.001	0.001	0.001	0.001	0.001
88 -89	—	0.001	0.024	0.202	0.302	0.123	0.031	0.010	0.005	0.004	0.002	0.001	—
89 -90	0.001	0.001	0.015	0.113	0.291	0.337	0.160	0.054	0.023	0.015	0.008	0.003	0.005
90 -91	0.001	0.002	0.012	0.065	0.170	0.347	0.443	0.285	0.130	0.073	0.034	0.008	0.001
91 -92	—	0.002	0.007	0.029	0.063	0.130	0.290	0.464	0.384	0.221	0.092	0.013	0.009
92 -93	—	0.001	0.002	0.006	0.011	0.024	0.057	0.152	0.326	0.313	0.128	0.011	0.002
93 -94	—	—	0.001	0.001	0.003	0.004	0.009	0.025	0.103	0.257	0.177	0.011	0.001
94 -98	—	—	0.001	0.001	0.001	0.002	0.002	0.006	0.026	0.115	0.525	0.133	0.003
98 -120	—	—	—	—	—	—	—	—	—	0.001	0.033	0.811	0.067
120 -160	—	—	—	—	—	—	—	—	—	—	—	0.007	0.908