

Table 7: Elements of the unfolding matrix obtained from the PYTHIA $Z \rightarrow \mu^+ \mu^-$ sample at $\sqrt{s} = 8$ 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	0.954	0.029	—	—	—	—	—	—	—	—	—	—	—
72 -81	0.041	0.871	0.048	0.001	—	—	—	—	—	—	—	—	—
81 -86	0.001	0.087	0.720	0.104	0.010	0.002	0.001	—	—	—	—	0.001	0.001
86 -88	—	0.003	0.157	0.452	0.146	0.035	0.010	0.004	0.002	0.002	0.002	0.002	0.001
88 -89	—	0.001	0.027	0.198	0.271	0.120	0.034	0.012	0.006	0.004	0.002	0.002	0.001
89 -90	0.001	0.002	0.019	0.119	0.287	0.314	0.160	0.061	0.029	0.017	0.010	0.005	0.002
90 -91	0.001	0.003	0.015	0.080	0.189	0.343	0.424	0.286	0.145	0.085	0.041	0.010	0.004
91 -92	0.001	0.003	0.010	0.035	0.077	0.149	0.297	0.446	0.381	0.232	0.105	0.016	0.003
92 -93	—	0.001	0.002	0.009	0.016	0.029	0.061	0.156	0.308	0.309	0.144	0.014	0.003
93 -94	—	0.001	0.001	0.002	0.003	0.005	0.010	0.029	0.100	0.233	0.175	0.013	0.001
94 -98	—	—	0.001	0.001	0.001	0.002	0.003	0.008	0.028	0.116	0.486	0.146	0.002
98 -120	—	—	—	—	—	—	—	—	—	0.001	0.035	0.784	0.061
120 -160	—	—	—	—	—	—	—	—	—	—	—	0.007	0.919