

Table 2.4

Individual results on Z parameters and their correlation coefficients from the four experiments. Systematic errors are included here except those summarised in Table 2.9

		Correlations								
		m_Z	Γ_Z	σ_{had}^0	R_e^0	R_μ^0	R_τ^0	$A_{\text{FB}}^{0,e}$	$A_{\text{FB}}^{0,\mu}$	$A_{\text{FB}}^{0,\tau}$
$\chi^2/\text{dof} = 169/176$		ALEPH								
m_Z (GeV)	91.1891 ± 0.0031	1.000								
Γ_Z (GeV)	2.4959 ± 0.0043	0.038	1.000							
σ_{had}^0 (nb)	41.558 ± 0.057	-0.091	-0.383	1.000						
R_e^0	20.690 ± 0.075	0.102	0.004	0.134	1.000					
R_μ^0	20.801 ± 0.056	-0.003	0.012	0.167	0.083	1.000				
R_τ^0	20.708 ± 0.062	-0.003	0.004	0.152	0.067	0.093	1.000			
$A_{\text{FB}}^{0,e}$	0.0184 ± 0.0034	-0.047	0.000	-0.003	-0.388	0.000	0.000	1.000		
$A_{\text{FB}}^{0,\mu}$	0.0172 ± 0.0024	0.072	0.002	0.002	0.019	0.013	0.000	-0.008	1.000	
$A_{\text{FB}}^{0,\tau}$	0.0170 ± 0.0028	0.061	0.002	0.002	0.017	0.000	0.011	-0.007	0.016	1.000
$\chi^2/\text{dof} = 177/168$		DELPHI								
m_Z (GeV)	91.1864 ± 0.0028	1.000								
Γ_Z (GeV)	2.4876 ± 0.0041	0.047	1.000							
σ_{had}^0 (nb)	41.578 ± 0.069	-0.070	-0.270	1.000						
R_e^0	20.88 ± 0.12	0.063	0.000	0.120	1.000					
R_μ^0	20.650 ± 0.076	-0.003	-0.007	0.191	0.054	1.000				
R_τ^0	20.84 ± 0.13	0.001	-0.001	0.113	0.033	0.051	1.000			
$A_{\text{FB}}^{0,e}$	0.0171 ± 0.0049	0.057	0.001	-0.006	-0.106	0.000	-0.001	1.000		
$A_{\text{FB}}^{0,\mu}$	0.0165 ± 0.0025	0.064	0.006	-0.002	0.025	0.008	0.000	-0.016	1.000	
$A_{\text{FB}}^{0,\tau}$	0.0241 ± 0.0037	0.043	0.003	-0.002	0.015	0.000	0.012	-0.015	0.014	1.000
$\chi^2/\text{dof} = 158/166$		L3								
m_Z (GeV)	91.1897 ± 0.0030	1.000								
Γ_Z (GeV)	2.5025 ± 0.0041	0.065	1.000							
σ_{had}^0 (nb)	41.535 ± 0.054	0.009	-0.343	1.000						
R_e^0	20.815 ± 0.089	0.108	-0.007	0.075	1.000					
R_μ^0	20.861 ± 0.097	-0.001	0.002	0.077	0.030	1.000				
R_τ^0	20.79 ± 0.13	0.002	0.005	0.053	0.024	0.020	1.000			
$A_{\text{FB}}^{0,e}$	0.0107 ± 0.0058	-0.045	0.055	-0.006	-0.146	-0.001	-0.003	1.000		
$A_{\text{FB}}^{0,\mu}$	0.0188 ± 0.0033	0.052	0.004	0.005	0.017	0.005	0.000	0.011	1.000	
$A_{\text{FB}}^{0,\tau}$	0.0260 ± 0.0047	0.034	0.004	0.003	0.012	0.000	0.007	-0.008	0.006	1.000
$\chi^2/\text{dof} = 155/194$		OPAL								
m_Z (GeV)	91.1858 ± 0.0030	1.000								
Γ_Z (GeV)	2.4948 ± 0.0041	0.049	1.000							
σ_{had}^0 (nb)	41.501 ± 0.055	0.031	-0.352	1.000						
R_e^0	20.901 ± 0.084	0.108	0.011	0.155	1.000					
R_μ^0	20.811 ± 0.058	0.001	0.020	0.222	0.093	1.000				
R_τ^0	20.832 ± 0.091	0.001	0.013	0.137	0.039	0.051	1.000			
$A_{\text{FB}}^{0,e}$	0.0089 ± 0.0045	-0.053	-0.005	0.011	-0.222	-0.001	0.005	1.000		
$A_{\text{FB}}^{0,\mu}$	0.0159 ± 0.0023	0.077	-0.002	0.011	0.031	0.018	0.004	-0.012	1.000	
$A_{\text{FB}}^{0,\tau}$	0.0145 ± 0.0030	0.059	-0.003	0.003	0.015	-0.010	0.007	-0.010	0.013	1.000