







Parameter	Average		Correlations						
$\Gamma_{f\bar{f}}$	[MeV]								
Without Lepton Universality									
			$\Gamma_{\text{had}}$	$\Gamma_{ee}$	$\Gamma_{\mu\mu}$	$\Gamma_{\tau\tau}$	$\Gamma_{b\bar{b}}$	$\Gamma_{c\bar{c}}$	$\Gamma_{\text{inv}}$
$\Gamma_{\text{had}}$	1745.8	$\pm 2.7$	1.00						
$\Gamma_{ee}$	83.92	$\pm 0.12$	-0.29	1.00					
$\Gamma_{\mu\mu}$	83.99	$\pm 0.18$	0.66	-0.20	1.00				
$\Gamma_{\tau\tau}$	84.08	$\pm 0.22$	0.54	-0.17	0.39	1.00			
$\Gamma_{b\bar{b}}$	377.6	$\pm 1.3$	0.45	-0.13	0.29	0.24	1.00		
$\Gamma_{c\bar{c}}$	300.5	$\pm 5.3$	0.09	-0.02	0.06	0.05	-0.12	1.00	
$\Gamma_{\text{inv}}$	497.4	$\pm 2.5$	-0.67	0.78	-0.45	-0.40	-0.30	-0.06	1.00
With Lepton Universality									
			$\Gamma_{\text{had}}$	$\Gamma_{\ell\ell}$	$\Gamma_{b\bar{b}}$	$\Gamma_{c\bar{c}}$	$\Gamma_{\text{inv}}$		
$\Gamma_{\text{had}}$	1744.4	$\pm 2.0$	1.00						
$\Gamma_{\ell\ell}$	83.985	$\pm 0.086$	0.39	1.00					
$\Gamma_{b\bar{b}}$	377.3	$\pm 1.2$	0.35	0.13	1.00				
$\Gamma_{c\bar{c}}$	300.2	$\pm 5.2$	0.06	0.03	-0.15	1.00			
$\Gamma_{\text{inv}}$	499.0	$\pm 1.5$	-0.29	0.49	-0.10	-0.02	1.00		

Table 7.1: Partial Z decay widths, derived from the results of Tables 2.13, 5.10 and 5.11. The width denoted as  $\ell^+\ell^-$  is that of a single charged massless lepton species. The width to invisible particles is calculated as the difference of total and all other partial widths.









