Table 3: Multi-component Fits to *ASCA* M82 Spectra

(**1**) Raymond-Smith + Raymond-Smith (**2**) Raymond-Smith + Power-law (**3**) Raymond-Smith + Raymond-Smith + Raymond-Smith

Model	Component[a]	N_H (10^{21} cm^{-2})	Γ/kT (keV)	$A/A_\odot$								χ^2/dof
				N	O	Ne	Mg	Si	S	Ar, Ca, Ni	Fe	
S0-1, 3' source region (using **PI** values from S0 chips 1 & 2 and S1 chips 0 & 3)												
1	R-S	$2.5^{+0.4}_{-0.3}$	$0.65^{+0.05}_{-0.06}$	< 0.63	$0.17^{+0.12}_{-0.08}$	$0.17^{+0.12}_{-0.09}$	$0.22^{+0.09}_{-0.06}$	$0.35^{+0.10}_{-0.07}$	$0.59^{+0.28}_{-0.24}$	$0.19^{+0.20}_{-0.19}$	$0.04^{+0.02}_{-0.02}$	515.6/403
	R-S	19^{+5}_{-6}	$9.6^{+4.0}_{-2.4}$	$0.19^{+0.15}_{-0.13}$								($\chi^2_\nu = 1.28$)
2	R-S	$2.6^{+0.3}_{-0.4}$	$0.65^{+0.06}_{-0.06}$	< 0.63	$0.17^{+0.12}_{-0.08}$	$0.17^{+0.11}_{-0.09}$	$0.22^{+0.08}_{-0.06}$	$0.34^{+0.08}_{-0.07}$	$0.55^{+0.27}_{-0.22}$	$0.17^{+0.20}_{-0.17}$	$0.04^{+0.01}_{-0.01}$	525.8/404
	PL	23^{+7}_{-7}	$1.81^{+0.17}_{-0.17}$									($\chi^2_\nu = 1.30$)
3	R-S	$3.1^{+0.9}_{-0.8}$	$0.36^{+0.05}_{-0.06}$	< 0.45	$0.08^{+0.05}_{-0.04}$	$0.18^{+0.09}_{-0.08}$	$0.25^{+0.16}_{-0.10}$	$0.48^{+0.23}_{-0.15}$	$0.34^{+0.19}_{-0.13}$	$0.42^{+0.28}_{-0.24}$	$0.05^{+0.03}_{-0.02}$	455.0/400
	R-S	$7.0^{+3.9}_{-3.9}$	$1.21^{+0.28}_{-0.21}$	Tied to above values								($\chi^2_\nu = 1.14$)
	R-S	49^{+39}_{-39}	$10.9^{+9.4}_{-3.4}$	$0.19^{+0.18}_{-0.17}$								
S0-1, 6' source region (using **PI** values from S0 chips 1 & 2 and S1 chips 0 & 3)												
1	R-S	$2.3^{+0.4}_{-0.3}$	$0.63^{+0.06}_{-0.05}$	< 0.55	$0.19^{+0.11}_{-0.08}$	$0.17^{+0.11}_{-0.08}$	$0.22^{+0.08}_{-0.07}$	$0.36^{+0.10}_{-0.07}$	$0.62^{+0.31}_{-0.24}$	$0.24^{+0.20}_{-0.19}$	$0.04^{+0.02}_{-0.02}$	540.7/421
	R-S	16^{+6}_{-5}	$10.3^{+4.5}_{-2.4}$	$0.19^{+0.16}_{-0.13}$								($\chi^2_\nu = 1.28$)
2	R-S	$2.4^{+0.3}_{-0.4}$	$0.64^{+0.05}_{-0.06}$	< 0.54	$0.19^{+0.10}_{-0.08}$	$0.17^{+0.10}_{-0.09}$	$0.22^{+0.08}_{-0.08}$	$0.35^{+0.08}_{-0.07}$	$0.57^{+0.28}_{-0.18}$	$0.22^{+0.19}_{-0.18}$	$0.04^{+0.01}_{-0.02}$	548.1/422
	PL	21^{+6}_{-7}	$1.78^{+0.17}_{-0.17}$									($\chi^2_\nu = 1.30$)
3	R-S	$3.0^{+0.9}_{-0.7}$	$0.36^{+0.04}_{-0.06}$	< 0.43	$0.09^{+0.05}_{-0.04}$	$0.17^{+0.09}_{-0.07}$	$0.25^{+0.16}_{-0.11}$	$0.48^{+0.27}_{-0.16}$	$0.35^{+0.25}_{-0.14}$	$0.41^{+0.29}_{-0.21}$	$0.05^{+0.03}_{-0.02}$	467.6/418
	R-S	$4.2^{+4.6}_{-3.9}$	$1.23^{+0.29}_{-0.22}$	Tied to above values								($\chi^2_\nu = 1.12$)
	R-S	40^{+24}_{-19}	$13.6^{+17.8}_{-4.9}$	$0.21^{+0.25}_{-0.21}$								
S0-3, 6' source region (using **PI** values from S0 chips 1 & 2 and S1 chips 0 & 3)												
1	R-S	$2.3^{+0.4}_{-0.3}$	$0.63^{+0.05}_{-0.05}$	< 0.54	$0.19^{+0.10}_{-0.08}$	$0.16^{+0.09}_{-0.08}$	$0.22^{+0.07}_{-0.06}$	$0.36^{+0.09}_{-0.06}$	$0.66^{+0.26}_{-0.21}$	$0.25^{+0.18}_{-0.18}$	$0.04^{+0.01}_{-0.02}$	1366 / 1333
	R-S	16^{+5}_{-4}	$11.4^{+2.7}_{-2.1}$	$0.18^{+0.11}_{-0.10}$								($\chi^2_\nu = 1.02$)
2	R-S	$2.4^{+0.3}_{-0.3}$	$0.63^{+0.05}_{-0.05}$	< 0.54	$0.18^{+0.10}_{-0.07}$	$0.15^{+0.09}_{-0.07}$	$0.22^{+0.06}_{-0.06}$	$0.35^{+0.07}_{-0.06}$	$0.60^{+0.24}_{-0.19}$	$0.23^{+0.17}_{-0.17}$	$0.04^{+0.01}_{-0.02}$	1379/1334
	PL	21^{+5}_{-5}	$1.76^{+0.11}_{-0.11}$									($\chi^2_\nu = 1.03$)
3	R-S	$3.3^{+0.9}_{-0.8}$	$0.35^{+0.05}_{-0.05}$	< 0.38	$0.07^{+0.05}_{-0.03}$	$0.14^{+0.07}_{-0.03}$	$0.19^{+0.11}_{-0.08}$	$0.34^{+0.20}_{-0.19}$	$0.31^{+0.18}_{-0.11}$	$0.34^{+0.20}_{-0.19}$	$0.04^{+0.03}_{-0.02}$	1307/1330
	R-S	$9.0^{+8.2}_{-4.9}$	$1.07^{+0.23}_{-0.16}$	Tied to above values								($\chi^2_\nu = 0.98$)
	R-S	47^{+27}_{-18}	$12.4^{+5.6}_{-3.0}$	$0.17^{+0.14}_{-0.11}$								

Errors give 90% confidence intervals for two interesting parameters

[a] R-S = Raymond-Smith; PL = Power-law