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Erratum: Tracing black hole accretion with SED decomposition and IR lines: from local galaxies to the high-z Universe

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This is an erratum to the paper 'Tracing black hole accretion with SED decomposition and IR lines: from local galaxies to the high-z Universe', by C. Gruppioni et al., published in MNRAS, 458, 4297 (2016).

Here we replace Table 4. In the original version of the Table, a few reported values of the coefficients were not correct (and did not match with those reported in Fig. 10). The values printed in the Figures are the correct ones and were also used for the all the calculations in the paper. The rest of the paper and our conclusions are unaffected by the Table correction.

Table 4. Best-fitting parameters of the line-luminosity relations: $\log_{10}(L_{\rm line}) = a \cdot \log_{10}(L_{\rm IR}) + b$ [equation 1]; $\log_{10}(L_{\rm line}) = c \cdot \log_{10}(L_{\rm bol}^{\rm AGN}) + d$ [equation 2]; $\log_{10}(L_{\rm line}) = e \cdot \log_{10}(L_{\rm IR}^{\rm SF}) + f$ [equation 3].

Line	a	b	c	d	e	f	$f_{\rm AGN}$(5–40 μm)
PAH 6.2	0.92 ± 0.02	− 1.91 ± 0.27	0.58 ± 0.03	2.17 ± 0.27	0.94 ± 0.02	− 2.09 ± 0.25	<40 per cent
			0.83 ± 0.03	− 1.26 ± 0.34			>40 per cent
PAH 11.2	0.95 ± 0.03	− 2.41 ± 0.31	0.52 ± 0.04	2.58 ± 0.30	0.93 ± 0.03	− 2.12 ± 0.30	<40 per cent
			0.75 ± 0.03	− 0.53 ± 0.36			>40 per cent
[Ne II] 12.8	0.87 ± 0.19	− 2.17 ± 0.21	0.57 ± 0.02	1.61 ± 0.23	0.89 ± 0.02	− 2.20 ± 0.19	<40 per cent
			0.72 ± 0.02	− 0.72 ± 0.22			>40 per cent
[Ne V] 14.3	0.89 ± 0.03	− 2.98 ± 0.40	0.66 ± 0.01	− 0.17 ± 0.16	0.87 ± 0.03	− 2.78 ± 0.38	<40 per cent
	0.97 ± 0.03	− 3.31 ± 0.28			0.93 ± 0.03	− 2.68 ± 0.28	>40 per cent
[Ne III] 15.5	0.92 ± 0.04	− 2.99 ± 0.40	0.58 ± 0.01	1.04 ± 0.13	0.92 ± 0.04	− 2.99 ± 0.40	<40 per cent
	0.78 ± 0.02	− 1.10 ± 0.23			0.78 ± 0.02	− 0.84 ± 0.23	>40 per cent
[S III] 18.7	0.82 ± 0.02	− 1.93 ± 0.22	0.52 ± 0.02	1.66 ± 0.24	0.78 ± 0.02	− 1.38 ± 0.23	<40 per cent
			0.66 ± 0.02	− 0.27 ± 0.28			>40 per cent
[Ne V] 24.3	0.78 ± 0.04	− 1.49 ± 0.39	0.53 ± 0.02	1.40 ± 0.17	0.77 ± 0.04	− 1.40 ± 0.39	<40 per cent
	0.91 ± 0.03	− 2.65 ± 0.3			0.88 ± 0.03	− 2.02 ± 0.31	>40 per cent
[O IV] 25.9	0.91 ± 0.03	− 2.69 ± 0.35	0.59 ± 0.01	1.19 ± 0.15	0.90 ± 0.03	− 2.50 ± 0.35	<40 per cent
	0.86 ± 0.02	− 1.58 ± 0.27			0.84 ± 0.03	− 1.10 ± 0.28	>40 per cent
[S III] 33.5	0.72 ± 0.05	− 0.53 ± 0.56	0.27 ± 0.04	4.85 ± 0.43	0.76 ± 0.06	− 0.78 ± 0.61	<40 per cent
			0.49 ± 0.30	2.00 ± 3.49			>40 per cent
[Si II] 34.8	0.94 ± 0.02	− 2.83 ± 0.26	0.51 ± 0.02	2.21 ± 0.25	0.87 ± 0.02	− 1.94 ± 0.25	<40 per cent
			0.69 ± 0.03	− 0.37 ± 0.31			>40 per cent

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Table 4 – *continued*

Line	*a*	*b*	*c*	*d*	*e*	*f*	f_{AGN}(5–40 μm)
[N III] 57.3	0.71 ± 0.09	− 0.67 ± 0.50	0.70 ± 0.09	0.08 ± 1.04	0.71 ± 0.04	− 0.47 ± 0.46	<40 per cent
			0.35 ± 0.06	2.87 ± 0.67			>40 per cent
[O I] 63	0.72 ± 0.04	− 0.08 ± 0.35	0.80 ± 0.04	− 0.72 ± 0.48	0.70 ± 0.03	0.32 ± 0.35	<40 per cent
			0.54 ± 0.04	1.77 ± 0.41			>40 per cent
[O III] 88	0.88 ± 0.04	− 2.11 ± 0.40	1.09 ± 0.05	− 4.20 ± 0.53	0.83 ± 0.035	− 1.40 ± 0.39	<40 per cent
			0.61 ± 0.05	0.79 ± 0.56			>40 per cent
[N II] 122	0.88 ± 0.04	− 2.76 ± 0.37	0.91 ± 0.04	− 2.62 ± 0.48	0.86 ± 0.03	− 2.48 ± 0.36	<40 per cent
			0.53 ± 0.05	0.73 ± 0.54			>40 per cent
[O I] 145	0.84 ± 0.03	− 2.38 ± 0.38	0.93 ± 0.04	− 3.11 ± 0.48	0.79 ± 0.03	− 1.70 ± 0.37	<40 per cent
			0.68 ± 0.05	− 0.60 ± 0.55			>40 per cent
[C II] 158	0.96 ± 0.03	− 2.73 ± 0.31	0.79 ± 0.04	− 0.37 ± 0.46	0.94 ± 0.03	− 2.39 ± 0.30	<40 per cent
			0.80 ± 0.03	− 1.24 ± 0.38			>40 per cent

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