

SUPPLEMENTARY ONLINE MATERIAL

Table 1: (TABLE 2): A comparison of our SHS $H\alpha$ fluxes (in $\text{erg cm}^{-2} \text{s}^{-1}$) for over 100 PNe and other nebulae with independent integrated $H\alpha$ fluxes taken from the literature, as explained in the text.

Name	$\log F(H\alpha)$ (other)	Reference	$\log F(H\alpha)$ (SHS)	Field	Remarks
Abell 18	-12.00 ± 0.09	FBP13	-11.92 ± 0.09	HAL1197	...
Abell 23	-11.86 ± 0.09	FBP13	-11.82 ± 0.08	HAL0526	...
Abell 26	-12.24 ± 0.08	FBP13	-12.31 ± 0.15	HAL0601	...
Abell 27	-12.01 ± 0.05	FBP13	-12.01 ± 0.15	HAL0602	...
Abell 44	-11.49 ± 0.10	FBP13	-11.56 ± 0.08	HAL0970	...
Abell 45	-11.26 ± 0.10	FBP13	-11.35 ± 0.15	HAL1060	...
Abell 48	-11.58 ± 0.06	FBP13b	-11.55 ± 0.10	HAL1241	...
Abell 58	-12.28 ± 0.06	FBP13	-12.32 ± 0.11	HAL1333	...
BMP J1613-5406	-11.60 ± 0.09	FBP13	-11.50 ± 0.12	HAL0289	...
BMP J1808-1406	-11.68 ± 0.09	FBP13	-11.78 ± 0.14	HAL0969	...
CGMW 3-2111	-12.38 ± 0.10	B06, FBP13	-12.40 ± 0.10	HAL1058	...
CVMP 1	-11.50 ± 0.10	FBP13a	-11.63 ± 0.14	HAL0232	...
DPV 1	-12.5 ± 0.3	DB96, P99	-12.50 ± 0.11	HAL0968	Sakurai's object
FP J0711-2531	-10.69 ± 0.04	FBP12	-10.51 ± 0.11	HAL0756	...
FP J1824-0319	-10.40 ± 0.10	M06, FBP13	-10.44 ± 0.10	HAL1240	...
Fr 2-7	-10.82 ± 0.10	FBP13	-10.86 ± 0.12	HAL0097	...
G4.4+6.4	-11.25 ± 0.06	FBP13	-11.31 ± 0.10	HAL0878	...
GL1PN J1530-5557	-13.86 ± 0.10	PC12 ^a	-14.17 ± 0.12	HAL0233	...
GL1PN J1557-5430	-14.79 ± 0.15	PC12 ^a	-14.70 ± 0.15	HAL0234	...
GL1PN J1642-4453	-14.94 ± 0.15	PC12 ^a	-14.88 ± 0.15	HAL0413	...
GL1PN J1823-1133	-13.80 ± 0.10	PC12 ^a	-14.05 ± 0.15	HAL1060	...
Hen 2-11	-10.97 ± 0.06	FBP13	-10.82 ± 0.08	HAL0459	...
HeFa 1	-12.49 ± 0.10	ASTR91	-12.26 ± 0.10	HAL0235	...
IC 1295	-10.65 ± 0.05	FBP13	-10.66 ± 0.08	HAL1152	...
JaSt 4	-13.22 ± 0.10	JaSt04	-13.30 ± 0.10	HAL0709	...
JaSt 16	-14.01 ± 0.10	JaSt04	-14.05 ± 0.10	HAL0710	...
JaSt 17	-12.74 ± 0.10	JaSt04	-12.71 ± 0.10	HAL0710	...
JaSt 36	-13.09 ± 0.10	JaSt04	-13.35 ± 0.10	HAL0710	marginally saturated
JaSt 44	-13.23 ± 0.10	JaSt04	-13.23 ± 0.10	HAL0710	...
JaSt 63	-13.95 ± 0.10	JaSt04	-13.57 ± 0.12	HAL0710	...
JaSt 64	-13.11 ± 0.03	JaSt04, RZ04	-13.22 ± 0.10	HAL0631	...
JaSt 69	-13.23 ± 0.10	JaSt04	-12.80 ± 0.10	HAL0710	...
JaSt 88	-12.98 ± 0.10	JaSt04	-12.78 ± 0.10	HAL0710	...
JaSt 95	-12.54 ± 0.10	JaSt04	-12.54 ± 0.10	HAL0710	...
K 1-4	-11.65 ± 0.06	FBP13	-11.80 ± 0.12	HAL0710	...
MeWe 1-1	-11.42 ± 0.05	FBP13	-11.55 ± 0.09	HAL0177	...
MeWe 1-2	-11.35 ± 0.12	FBP13	-11.06 ± 0.08	HAL0222	...
MPA J1827-1328	-12.58 ± 0.06	KH93	-12.71 ± 0.10	HAL1060	...
NeVe 3-3	-12.07 ± 0.06	FBP13	-11.93 ± 0.10	HAL0600	...
NGC 4071	-10.95 ± 0.04	SK89, FBP13	-11.11 ± 0.08	HAL0098	saturated?
PHR J0652-1240	-11.64 ± 0.08	FBP13	-11.78 ± 0.10	HAL1017	...
PHR J0719-1222	-11.99 ± 0.10	FBP13	-12.03 ± 0.10	HAL1018	...
PHR J0755-3346	-12.24 ± 0.13	FBP13	-12.03 ± 0.10	HAL0600	...
PHR J0808-3745	-11.87 ± 0.12	FBP13	-11.81 ± 0.09	HAL0527	...
PHR J0834-2819	-11.99 ± 0.08	FBP13	-12.07 ± 0.08	HAL0679	...
PHR J0907-4532	-11.58 ± 0.09	FBP13	-11.68 ± 0.10	HAL0393	...
PHR J0941-5356	-10.95 ± 0.07	FBP13	-10.85 ± 0.11	HAL0274	...
PHR J0942-5220	-11.58 ± 0.09	FBP13	-11.64 ± 0.10	HAL0274	...
PHR J1032-6310	-11.40 ± 0.07	FBP13	-11.54 ± 0.10	HAL0133	...
PHR J1052-5042	-11.68 ± 0.06	FBP13	-11.51 ± 0.09	HAL0277	...
PHR J1137-6548	-10.81 ± 0.05	FBP13	-10.98 ± 0.11	HAL0134	...
PHR J1202-7000	-11.80 ± 0.08	FBP13	-11.65 ± 0.14	HAL0098	...
PHR J1246-6324	-12.17 ± 0.09	FBP13	-12.37 ± 0.10	HAL0136	...
PHR J1250-6346	-11.98 ± 0.09	FBP13	-12.29 ± 0.10	HAL0136	...
PHR J1255-6251	-13.00 ± 0.30	FBP13	-12.70 ± 0.15	HAL0136	...
PHR J1315-6555	-12.45 ± 0.02	PFM11	-12.82 ± 0.12	HAL0137	...
PHR J1327-6032	-11.49 ± 0.07	FBP13	-11.52 ± 0.12	HAL0180	...

Table 1 – Continued

Name	$\log F(\text{H}\alpha)$ (other)	Reference	$\log F(\text{H}\alpha)$ (SHS)	Field	Remarks
PHR J1337-6535	-11.56 ± 0.07	FBP13	-11.68 ± 0.12	HAL0138	...
PHR J1408-6106	-11.34 ± 0.07	FBP13	-11.46 ± 0.12	HAL0181	...
PHR J1432-6138	-11.20 ± 0.06	FBP13	-11.12 ± 0.15	HAL0182	...
PHR J1529-5458	-12.47 ± 0.13	FBP13	-12.55 ± 0.10	HAL0233	...
PHR J1537-6159	-11.68 ± 0.13	FBP13	-11.59 ± 0.10	HAL0184	...
PHR J1651-3148	-11.88 ± 0.09	FBP13	-11.66 ± 0.10	HAL0628	...
PHR J1709-3629	-12.30 ± 0.20	FBP13	-12.50 ± 0.09	HAL0554	...
PHR J1753-2234	-12.37 ± 0.13	FBP13	-12.30 ± 0.11	HAL0794	...
PHR J1806-1956	-12.40 ± 0.20	FBP13	-12.41 ± 0.12	HAL0880	...
PHR J1818-1526	-12.80 ± 0.20	FBP13	-12.77 ± 0.12	HAL0970	...
PM 1-104	-13.50 ± 0.10	PC12	-13.37 ± 0.12	HAL0234	...
PTB 15	-12.44 ± 0.10	B03	-12.34 ± 0.10	HAL0968	...
PTB 17	-12.15 ± 0.03	B03, FBP13	-12.35 ± 0.10	HAL0968	...
PTB 23	-11.80 ± 0.20	FBP13	-11.59 ± 0.08	HAL0971	...
PTB 24	-13.06 ± 0.20	B03	-12.99 ± 0.09	HAL1059	...
PTB 30	-12.95 ± 0.20	B06	-12.85 ± 0.10	HAL0879	...
RCW 24	-10.90 ± 0.04	FBP13	-10.80 ± 0.12	HAL0458	...
Sab 41	-11.41 ± 0.05	FBP13	-11.34 ± 0.11	HAL0556	...
SaWe 3	-11.40 ± 0.09	HDM98, FBP13	-11.42 ± 0.12	HAL0133	...
SB 3	-11.63 ± 0.07	BDF99	-11.63 ± 0.09	HAL0632	...
SB 8	-12.25 ± 0.12	BDF99, FBP13	-12.28 ± 0.10	HAL0712	...
SB 12	-13.65 ± 0.10	BDF99	-13.77 ± 0.10	HAL0712	...
SB 33	-13.05 ± 0.10	BDF99	-12.75 ± 0.10	HAL0485	...
SB 34	-12.57 ± 0.10	BDF99	-12.60 ± 0.09	HAL0485	...
Sh 2-42	-11.04 ± 0.05	FBP13	-10.92 ± 0.10	HAL0969	...
Sh 2-68	-10.46 ± 0.08	XPPT, FBP13	-10.49 ± 0.10	HAL1330	uncertain PN
SuWt 2	-11.50 ± 0.20	FBP13	-11.70 ± 0.15	HAL0181	...
vBe 2	-12.27 ± 0.13	FBP13	-12.24 ± 0.12	HAL0234	...
WeSb 4	-12.31 ± 0.15	FBP13	-12.37 ± 0.13	HAL1332	...
WKG 1	-12.13 ± 0.10	WKG97	-12.37 ± 0.10	HAL0138	...
WKG 3	-12.26 ± 0.12	FBP13	-12.30 ± 0.10	HAL0181	...
Hf 39	-11.74 ± 0.10	S87, H94	-11.52 ± 0.10	HAL0175	LBV ejecta
K 2-15	-10.41 ± 0.04	FBP13	-10.45 ± 0.08	HAL0392	H II region
NGC 2736	-10.27 ± 0.07	this work	-10.39 ± 0.10	HAL0392	part of Vela SNR
RCW 27	-7.64 ± 0.06	this work	-7.67 ± 0.08	HAL0459	H II region
RCW 32	-8.60 ± 0.07	this work	-8.55 ± 0.07	HAL0459	H II region
RCW 33	-7.71 ± 0.08	this work	-7.66 ± 0.08	HAL0459	H II region
RCW 36	-9.34 ± 0.05	this work	-9.47 ± 0.10	HAL0392	H II region
RCW 40	-9.02 ± 0.05	this work	-9.11 ± 0.10	HAL0331	H II region
RCW 58	-9.70 ± 0.06	this work	-10.11 ± 0.12	HAL0133	WR ejecta
RCW 64	-10.24 ± 0.05	this work	-10.29 ± 0.08	HAL0135	H II region
Sh 2-61	-10.02 ± 0.06	FBP13	-10.20 ± 0.10	HAL0350	H II region
vBe 1	-10.02 ± 0.06	FBP13	-10.20 ± 0.10	HAL0350	H II region
WR 16	-10.64 ± 0.10	this work	-10.57 ± 0.10	HAL0221	WR shell
Wray 15-751	-12.43 ± 0.08	H94	-12.25 ± 0.09	HAL0176	LBV ejecta

Reference codes: ASTR91 – Acker et al. (1991); B03, B06 – Boumis et al. (2003, 2006); BDF99 – Beaulieu et al. (1999); DB96 – Duerbeck & Benetti (1996); FBP13 – Frew et al. (2013a); FBP13b – Frew et al. (2013b); H94 – Hutsemekers (1994); HDM98 – Hua, Dopita & Martinis (1998); JaSt04 – Jacoby & Van de Steene (2004); KH93 – Kistiakowsky & Helfand (1993); M06 – Madsen et al. (2006); P99 – Pollacco (1999); PC12 – Parker et al. (2012); PFM11 – Parker et al. (2011); RZ04 – Ruffle et al. (2004); S87 – Stahl (1987); SK89 – Shaw & Kaler (1989); WKG97 – Weinberger et al. (1997); XPPT – Xilouris et al. (1996). Note: ^a fluxes revised using new calibration factors from this work.