COOL CARBON STARS IN OPEN CLUSTERS

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Abstract. By combining lists of carbon stars with the catalogue of open clusters (Alter *et al.*, 1970), a list of variable carbon stars, being probable members of clusters is given. The number of stars is too small to derive reliable statistics on cluster membership. Too few radial velocities are yet available. Photometric criteria are still too inaccurately known.

Absolute magnitudes in the infrared region ($\lambda = 1.04\ \mu$) were recently derived by Baumert (1974).

TABLE I

Variable carbon stars near open clusters

No. GCCCS	Star designation	Cluster	ϱ/r relative angular distance	V-magnitude
252	HN Aur	NGC 1664	0.2	11^m2–11^m6
1275		NGC 2660	0.3	
3187	V 433 Cas	Czernik 43	0.5	
3187	V 433 Cas	NGC 7654	2.8	
86	EW Per	Stock 4	0.6	
538		Collinder 106	1.0	12.8–13.3
148	BI Per	Berkeley 9	1.1	
1604	SZ Car	NGC 3114	1.2	
2724	U Lyr	NGC 6791	1.3	
2870	AY Cyg	Dolidze 2	1.7	
2873	RY Cyg	NGC 6883	1.7	9.0– 9.3
2851	SVS 1633	Dolidze 37	1.8	12.4–14.4
2519	V 1948 Sgr	NGC 6541	1.9	
2883	V432 Cyg	Dolidze 3	1.9	10.5–11.1
112	VZ Per	Trumpler 2	1.9	
2874	V 429 Cyg	NGC 6883	2.0	10.6–11.4
339		NGC 1912	2.3	14.5–15.1
1750	TZ Car	IC 2606	2.3	
3210	SVS 1730	NGC 7789	2.4	9.6–10.9
107	DY Per	Trumpler 2	2.4	
814	BF Pup	NGC 2422	2.8	
2756	AR Vul	Stock 1	2.7	
338		Stock 8	2.8	13.3–15.5
–	SVS 1731	NGC 7789	3.0	12.0–14.0

References

Alter, G., Ruprecht, J., and Vanýsek, V.: 1970, *Catalogue of Star Clusters*, 2nd ed., Budapest.
Baumert, J. H.: 1974, *Astrophys. J.* **190**, 85.

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