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POSSIBLE FLARE ACTIVITY IN A G-TYPE STAR

During 60-inch photoelectric observations in the Small Magellanic Cloud, C.J. Butler has found a 10th magnitude star used by H.C. Arp as a secondary standard<sup>†</sup> which increased suddenly by 0.1 magnitude in blue, showing the characteristic gradual decline of the stellar flares in dMe stars. The star, designated by Arp as R in his Plate 1 /approximate position,  $0^{\text{h}}59^{\text{m}}0, -72^{\circ}54'$ , 1960/ was substantially brighter than normal in blue for more than half an hour after the main event. Maximum occurred at  $1^{\text{h}}10^{\text{m}}$  U.T. on 10th September 1966. On an ADH objective prism plate the star appears as an early G-type star. Arp gives the colours,  $B-V = 0.74$ ,  $C_U = 1.73$ , and a visual magnitude 10.58. Monitoring of the star is planned to confirm the unusual rapid variation of so early a spectral type.

Boyden Observatory  
September 11, 1966

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<sup>†</sup>H.C. Arp, *Astronomical Journal*, Vol. 63 /1958/, 118.