

NOTE ON THE EVOLUTION OF THE CEPHEIDS

by

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The hypothesis that classical Cepheids are normal products of the evolution of B-type is examined and its consequences are compared to observations. Agreement is found a) for the number of B stars and Cepheids in galactic clusters and in the general field b) the distribution of Cepheids in associations. An estimate of the lifetime of Cepheids is given; the result is  $2,5 \times 10^6$  years. Finally the period-frequency distribution of the Cepheids is derived theoretically and compared to observations; the agreement is satisfactory for the longer periods. The paper will be published in full elsewhere.

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