Classification of the Fine Effects in the Light Curves of Eclipsing Binary Stars *(Abstract)*

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Abstract This paper discusses the fine effects in photoelectric light curves of eclipsing binary stars, and shows the classification of fine effects and their deformational influence on a light curve if they are present in the binary system. More detailed analysis is given for one of them—the effect of refraction electromagnetic radiation in the atmospheres of close binary stars. This effect deforms the light curve during the total eclipse. On the light curve it is manifested by the small hump in the constant part of the minimum. This effect is registered in seventeen systems.