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PRELIMINARY PHOTOMETRIC ORBITAL ELEMENTS OF 1 PERSEI

The light variation of the bright eclipsing binary 1 Persei (HD 11241,  $m_V=5.52$ ) has been studied photoelectrically by Kurtz in 1977 and by North and Rufener in 1980 in V-light. We solved the combined light curve of this binary system by means of a least square procedure applied to unrectified observations. In the table we list our photometric orbital elements.

Min I = Transit  
Min II = Occultation  
 $u_g = u_s = 0.40$  (assumed)  
 $k = .87 \pm .07$   
 $r_g = .0381 \pm .0003$   
 $r_s = .0331 \pm .0002$   
 $i = 88^\circ.3 \pm 0^\circ.9$   
 $e = .309 \pm .008$   
 $\omega = 115^\circ.9 \pm 0^\circ.7$   
 $L_g = .73 \pm .03$   
 $L_s = .27 \pm .03$

1 Persei is confirmed to be a detached system free of complications. A detailed analysis of this system will be published elsewhere.

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