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FLARE STARS IN ORION

In order to discover flare stars in the Orion nebula region photographic observations were made with the Abastumani Astrophysical Observatory 28" Meniscus-type (pg) and the Byurakan Astrophysical Observatory 40" Schmidt (U) telescopes by means of the multiple exposure method. 14 flare events have been found. Four of them are repeated flares of stars listed in [1].

Out of all flares registered 13 are fast flares and No.49 is a slow one, the brightness of which had increased for more than 30 minutes.

Table I gives the data of these flares. We are continuing the numeration of flares detected at Abastumani [2,3] in the Orion aggregate.

| No | $\alpha$ 1900                                  | $\delta$ 1900         | Table I            |       | $\Delta_m$        | Date | Telesc.    | Ident.     |
|----|--|-----------------------|--------------------|-------|-------------------|------|------------|------------|
|    |  |                       | $m_{min}$          | U     |                   |      |            |            |
|    |  |                       | pg                 | U     | pg                |      |            |            |
| 49 | 5 <sup>h</sup> 30 <sup>m</sup> 31 <sup>s</sup> | -5 <sup>o</sup> 00'.0 | 17 <sup>m</sup> .0 |       | 4 <sup>m</sup> .2 |      | 04.02.1978 | 28"        |
| 50 | 30 33  | -6 51.9               | 14.7               |       | 1.1               |      | 10.10      | 28"        |
| 51 | 27 15  | -5 00.0               | 19.3               |       | 4.2               |      | 11.10      | 28"        |
| 52 | 23 05  | -5 45.5               | 18.0               |       | 0.8               |      | 25.11      | 28"        |
| 53 | 27 18  | -7 07.6               | 15.8               | 18.0  | 1.7               | 4.6  | 25.11      | 40"28" 187 |
| 54 | 37 08  | -5 14.2               | 21.0               | >21.0 |                   | >7.0 | 29.11      | 40"        |
| 55 | 27 53  | -5 44.0               | 17.2               |       | 1.5               |      | 27.12      | 28" 191    |
| 56 | 22 14  | -6 28.7               | 19.2               |       | 3.4               |      | 28.01.1979 | 28"        |
| 57 | 27 51  | -6 41.0               | 18.7               |       | 2.2               |      | 28.01      | 28"        |
| 58 | 28 28  | -5 36.8               | 15.6               |       | 2.3               |      | 28.01      | 28" 194    |
| 59 | 28 28  | -5 36.8               | 15.6               | 17.8  |                   | 2.1  | 29.01      | 40" 194    |
| 60 | 31 39  | -3 47.5               | 18.3               | 19.0  |                   | 3.5  | 29.01      | 40"        |
| 61 | 31 28  | -4 32.9               | 16.2               |       | 0.7               |      | 19.03      | 28"        |
| 62 | 32 50  | -5 33.1               | 18.7               |       | 3.2               |      | 19.03      | 28"        |

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