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NEW VARIABLE STARS

During a survey of variable stars, on plates taken with the Schmidt telescope 40/50/100 of Asiago Astrophysical Observatory, I have found the following new variable stars:

var	RA 1900	D	Max	min	type
GR 120	11 <sup>h</sup> 32 <sup>m</sup> 07 <sup>s</sup>	+56° 50'	16.7	17.4	RR
GR 121	11 34 15	+54 37	16.5	17.5	RR
GR 122	11 34 22	+55 42	16.7	17.5	RR
GR 123	11 52 47	+55 48	15.7	17.0	RR

GR 122 is near to a small galaxy.

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PHOTOELECTRIC OBSERVATIONS OF TX UMa

Three photoelectric minima of TX UMa, obtained at the Nürnberg Observatory in the years 1965, 1966 and 1967 show large negative O-C's against the elements given by F. B. Wood (I) in GCVS and by H. Rügemer (II) in SAC 38, respectively.

$$\text{Min} = \text{JD } 2416426.783 + 3^{\text{d}}.0633175 \cdot \text{E} + 0^{\text{d}}.021 \cdot \sin(0^{\circ}.09474 \cdot \text{E} + 64^{\circ}.42) \quad (\text{I})$$

$$\text{Min} = \text{JD } 2435584.7500 + 3^{\text{d}}.0633175 \cdot \text{E} \quad (\text{II})$$

Our photoelectric observations are inconsistent with the remark in SAC 38, page 105 "A minimum recently observed by K. Kordylewski is in agreement with our ephemeris".

The Nürnberg observations of TX UMa lead to the new elements:

$$\text{Min} = \text{JD } 2438856.353 + 3^{\text{d}}.063243 \cdot E \quad (\text{III})$$

The minima obtained at the Nürnberg Observatory are given in the following Table together with the O-C's computed with the formulas (I) to (III)

Minima	O - C (I)	O - C (II)	O - C (III)
2438856,354	-0. <sup>d</sup> 053	-0. <sup>d</sup> 019	+0. <sup>d</sup> 001
39193,308	-0.067	-0.030	-0.002
39536,394	-0.076	-0.036	+0.001

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