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A NEW CEPHEID IN THE LMC

BV 906 (in the LMC) is detected as variable by H. MEIER
(Veröff. Remeis-Sternwarte Bamberg, Bd. VI, Nr. 48, 1967, there
position and identification card). First the Harvard plate material
(all maxima before JD 243 9100, estimated by H. BAUERNFEIND
makes possible the derivation of elements:

$$\text{Max} = \text{JD } 241\,3847.250 + 5.072\,575 \cdot E$$

Maxima	E	O - C
241 3847.841	0	+0.591
3922.617	15	-0.722
3948.574	20	-0.128
3954.583	21	+0.809
7590.587++	738	-0.223
7965.607	812	-0.574
242 3465.597+	1896	+0.745
3490.574	1901	+0.359
3667.868	1936	+0.113
3682.875	1939	-0.098
3738.785	1950	+0.014
4408.850	2082	+0.499
4418.800++	2084	+0.304
4824.683	2164	+0.381
6011.336	2398	+0.051
6245.582	2444	+0.959
6264.557	2448	-0.357
6341.332	2463	+0.330
6412.253+	2477	+0.235
6427.255	2480	+0.019
6452.220	2485	-0.379
6453.220	2485	+0.621

Maxima	E	O - C
242 6594.599+	2513	-0.032
6635.562+	2521	+0.350
6960.608	2585	+0.752
7310.577	2654	+0.713
7421.312++	2676	-0.149
.344++	2676	-0.117
7422.272	2676	+0.811
7426.296	2677	-0.237
.329	2677	-0.204
.363	2677	-0.170
.396	2677	-0.137
.448	2677	-0.085
.555	2677	+0.022
7457.277	2683	+0.308
.311	2683	+0.362
.349	2683	+0.380
.382	2683	+0.413
.436	2683	+0.467
.469	2683	+0.500
.502	2683	+0.533
.535	2683	+0.566
7670.574	2723	+0.702
7700.556++	2731	+0.104
7730.521	2737	-0.367
7746.482+	2740	+0.376
7747.424+	2740	+1.318
7756.336	2742	+0.083
7776.524	2746	-0.027
7786.315	2748	-0.371
7802.499+	2751	+0.596
.552+	2751	+0.648
7807.283+	2752	+0.307
.317+	2752	+0.341
.365+	2752	+0.389
.399+	2752	+0.423
.443+	2752	+0.467
.476+	2752	+0.500
.517+	2752	+0.541
.549	2752	+0.573
7808.282	2752	+1.306
.317	2752	+1.341
.377	2752	+1.401
.402	2752	+1.428

Maxima	E	O - C
242 8035.597	2797	+0.355
8157.460	2821	+0.476
8405.640	2870	+0.100
8776.584	2943	+0.746
8780.585	2944	-0.326
9202.383	3027	+0.448
9217.448++	3030	+0.296
9222.409++	3031	+0.184
9223.406	3031	+1.181
9228.404	3032	+1.107
9349.242+	3056	+0.203
9517.624	3089	+1.190
9526.598++	3091	+0.019
9577.384+	3101	+0.079
9587.337+	3103	-0.113
9674.309	3120	+0.625
9881.575	3161	-0.085
9927.447+	3170	+0.134
9938.541	3172	+0.919
243 0023.355	3189	-0.337
0318.394	3247	+0.493
.554	3247	+0.653
0373.270	3258	-0.429
.325	3258	-0.374
.392	3258	-0.307
0647.582+	3304	-0.036
0749.276	3332	+0.206
0977.564++	3377	+0.228
.612++	3377	+0.276
1109.457+	3403	+0.234
1297.632	3440	+0.724
1317.599	3444	+0.401
1327.634+	3446	+0.291
1328.570	3446	+1.227
.617	3446	+1.274
1332.587+	3447	+0.171
.626+	3447	+0.210
1657.649	3511	+0.588
1677.644++	3515	+0.293
1682.637+	3516	+0.213
1697.559+	3519	-0.082

Maxima	E	O - C
243 1702.562++	3520	-0.152
1703.629	3520	+0.915
1708.613	3521	+0.826
1712.517	3522	-0.342
1713.545	3522	+0.686
1734.511	3526	+1.362
2012.641	3581	+0.500
2027.647+	3584	+0.288
2037.641	3586	+0.137
2042.647	3587	+0.071
2053.628	3589	+0.906
2058.600	3590	+0.806
2067.621	3592	-0.318
2129.569	3604	+0.759
2509.307++	3679	+0.054
2838.602	3744	-0.369
2884.277+	3753	-0.347
.322+	3753	-0.302
.365+	3753	-0.259
.418+	3753	-0.206
2915.336+	3759	+0.277
2940.363+	3764	-0.059
.413+	3764	-0.009
.457	3764	+0.035
2941.291	3764	+0.869
.343	3764	+0.921
.385	3764	+0.963
.433	3764	+1.011
3153.625+	3806	+0.155
9139.377+	4986	+0.268
9150.338	4988	+1.084
9164.273+	4991	-0.199
9169.281	4992	-0.263
9174.274	4993	-0.343
9175.282	4993	+0.665
9180.280	4994	+0.590
9184.283	4995	-0.479
9195.258+	4997	+0.351
9200.256++	4998	+0.276
9205.244+	4999	+0.192
9210.243++	5000	+0.118

Maxima	E	O - C
243 9215.444	5001	+0.246
9225.256	5003	-0.087
9230.226	5004	-0.189
9236.235	5005	+0.747
9443.562+	5046	+0.099

Probable a hump near phase 0.25. Light variation approximately $14^m.9 - 16^m.0$ with the minimum about phase 0.75. The brightness is too large or the period is too short for the usual periodluminosity relation. Very good maxima are signified by crosses.

Remeis-Observatory
Bamberg, 1967 Dez. 31

W. STROHMEIER