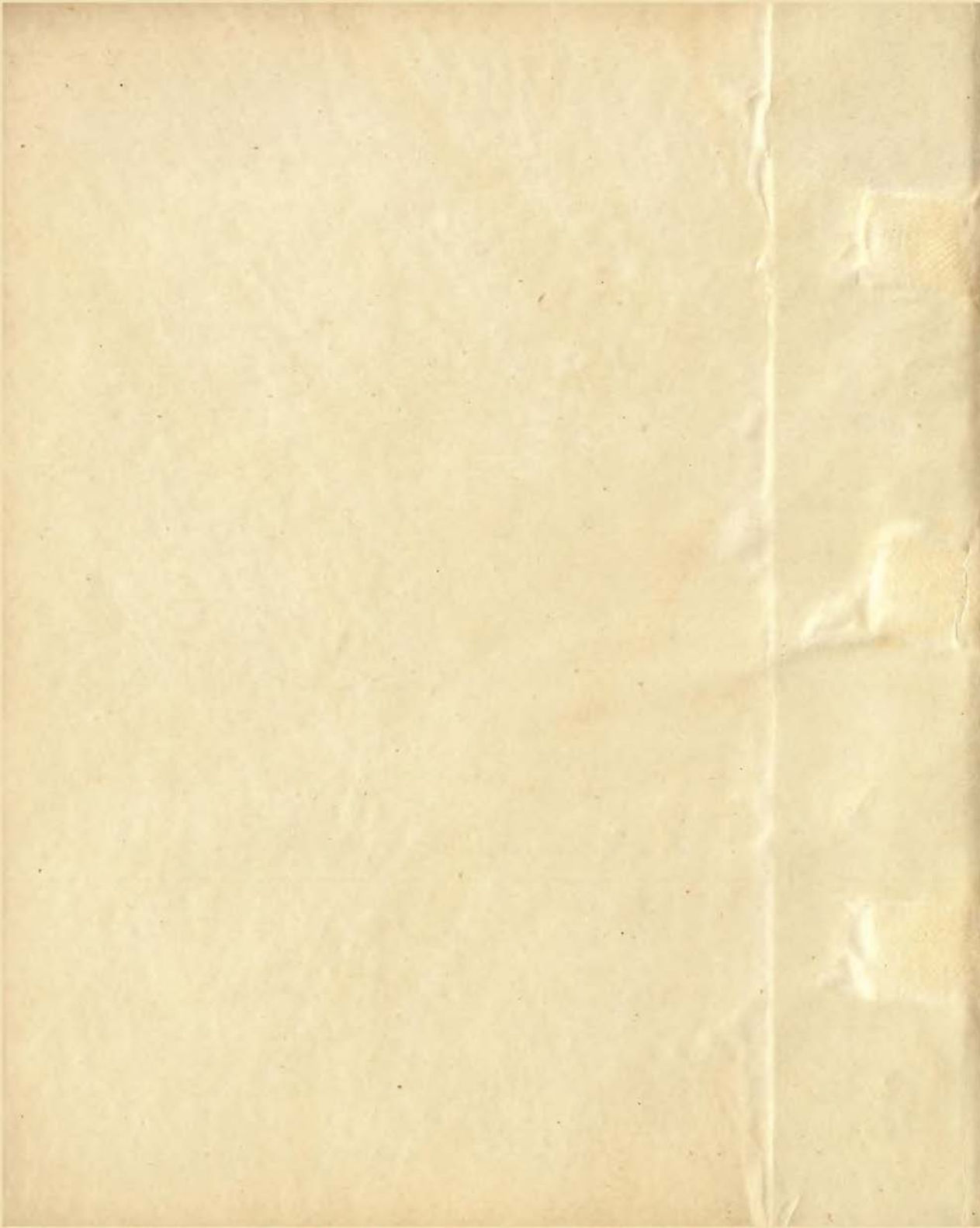
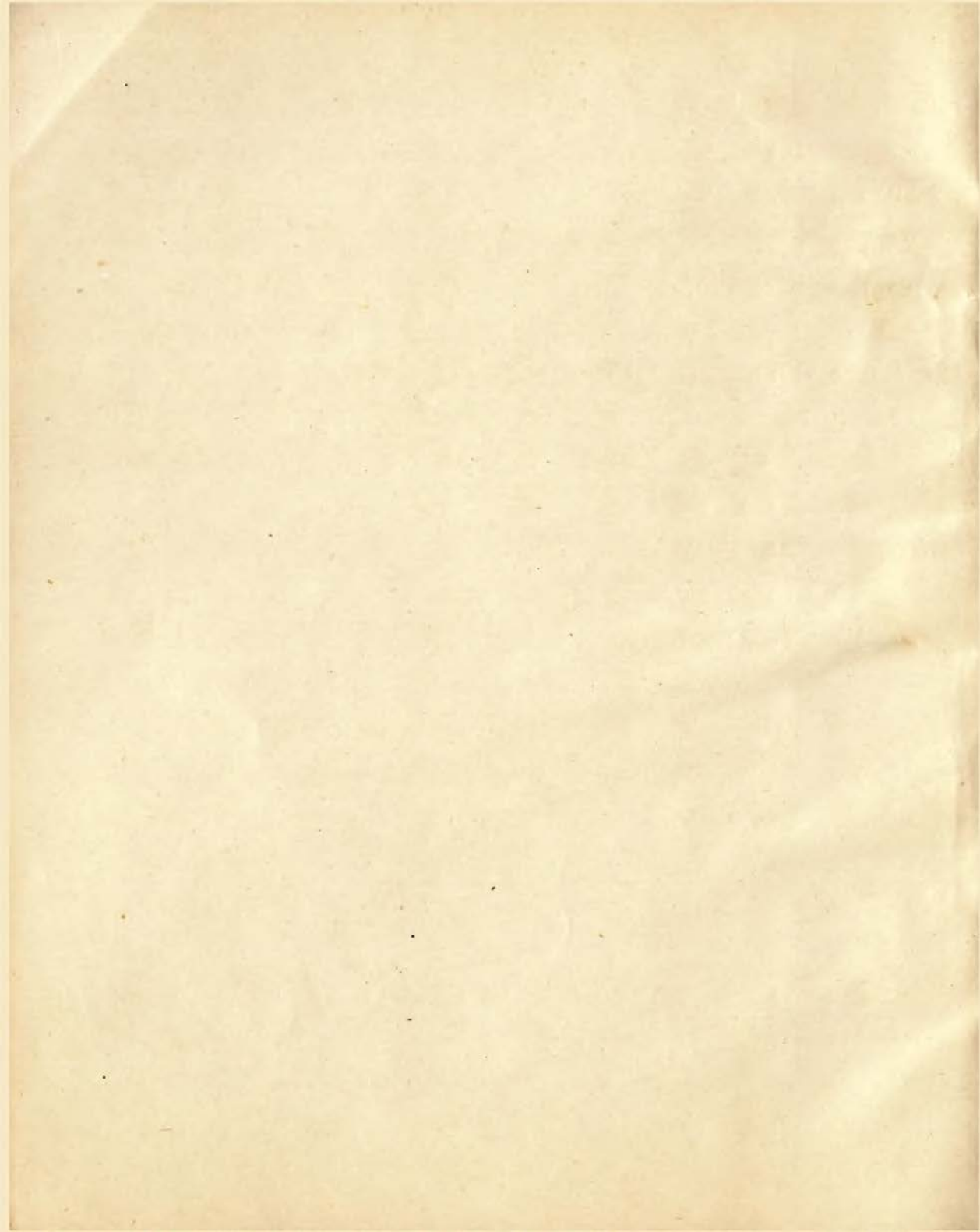


REFLECTOR 7

4833 - a - 4920







Observadores

K Kuawicz  
Bz Bolzicco  
S Solivella

16-17/I/78 K.

T.S.

T.U.

A. h. m.

HU 4833	1	HR 1367	103a-E	16	5 57	6 13	2 04	2 20	+ 1 45
HU 4834	2	HR 1595	"	30	6 28	6 58	2 35	3 05	+ 1 46
HU 4835	3	HR 2282	"	10	7 28	7 38	3 35	3 45	+ 1 14
HU 4836	4	HR 2288	"	18	7 54	8 12	4 01	4 19	+ 1 44

18-19/I/78 K.

HU 4837	5	HR 1646	"	30	5 31	6 01	1 31	2 01	+ 0 43
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20-21/I/78 K.

HU 4838	1	HR 1213	103a-E	8	5 04	5 12	0 56	1 04	+ 1 15
HU 4839	2	HR 1460	"	60	5 30	6 30	1 22	2 22	+ 1 26
HU 4840	3	HR 2282	"	6	6 54	7 00	2 46	2 52	+ 0 38
HU 4841	4	HR 2282	"	8	7 07	7 15	2 59	3 07	+ 0 52
HU 4842	5	HR 2397	"	18	8 00	8 18	3 52	4 10	+ 1 38

24-25/I/78 K.

HU 4843	1	HR 1213	103a-E	6	5 28	5 34	1 04	1 10	+ 1 38
HU 4844	2	HR 1134	"	8	5 48	5 56	1 24	1 32	+ 2 11
HU 4845	3	HR 1900	"	40	6 20	7 00	1 56	2 36	+ 1 06
HU 4846	4	HR 2282	"	3	7 16	7 19	2 52	2 55	+ 0 59
HU 4847	5	HR 2726	"	24	8 04	8 28	3 40	4 04	+ 1 05

20-21/II/78 K.

HU 4848	1	HR 3654	103a-E	10	11 16	11 26	3 15	3 25	+ 2 11
HU 4849	2	HR 4487	"	12	11 46	11 58	3 45	3 57	+ 0 16

28-29/II/78 K.

HU 4850	7	HR 3174	103a-E	30	9 24	9 54	0 52	1 22	+ 1 35
HU 4851	8	HR 3500	"	12	10 34	10 46	2 02	2 14	+ 1 53

$$D_H = 40 \frac{\text{Å}}{\text{mm}}$$

$$R: a = 1714 \text{ Å}, \ell = 2 \text{ Å}$$

	Ne 40 <sup>A</sup>	F <sub>can.</sub> = 32.5	c = 5	t = 25.3 c	
"	"	"	"	25.0	
"	"	"	"	24.8	con D <sub>c</sub>
"	"	"	"	24.5	
"	"	"	"	27.9	
"	"	"	5, p., m	21.3	
"	"	"	"	20.1	
"	"	"	"	20.0	con D <sub>c</sub>
"	"	"	"	20.0	" "
"	"	"	"	19.6	
"	"	"	5, p.	21.0	
"	"	"	"	20.7	
"	"	"	"	20.1	
"	"	"	"	20.2	con D <sub>c</sub>
"	"	"	"	20.3	
"	"	"	5, p	18.4	
"	"	"	"	18.2	
"	"	<del>11</del>	5	20.4	
"	"	"	"	19.9	

					T. S.	T. U.	A. P. m.
	28-29/III/78 K.						
HU 4852	9 HR 3849	103a-E	10	11 19	11 29	2 47	2 57 +1 46
HU 4853	10 HR 4119	"	10	11 50	12 00	3 18	3 28 +1 27
	29-30/III/78 K.						
HU 4854	11 HR 3207	103a-E	2	8 32	8 34	23 56	23 58 +0 24
HU 4855	12 HR 2653	"	12	8 49	9 01	0 13	0 25 +1 54
HU 4856	13 HR 3194	"	16	9 33	9 49	0 57	1 13 +1 33
	19-20/IV/78 K.						
HU 4857	1 HR 3476	103a-E	12	9 44	9 56	23 45	23 57 +1 08
	21-22/IV/78 K.						
HU 4858	1 HR 3582	103a-E	12	10 48	11 00	0 41	0 53 +1 58
HU 4859	2 HR 4196	"	12	11 15	11 27	1 08	1 20 +0 40
HU 4860	3 HR 4147	"	50	11 47	12 37	1 40	2 30 +1 40
HU 4861	4 HR 4806	"	50	13 06	13 56	2 59	3 49 +0 55
HU 4862	5 HR 5285	"	6	14 44	14 50	4 37	4 43 +0 43
HU 4863	6 HR 5285	"	6	15 08	15 14	5 01	5 07 +1 07
	3-4/V/78 K.						
HU 4864	1 HR 3359	103a-E	12	10 48	11 00	23 54	0 06 +2 26
HU 4865	2 HR 3359	"	18	11 17	11 35	0 23	0 41 +2 58
HU 4866	3 HR 3582	"	12	11 54	12 06	1 00	1 12 +3 04
HU 4867	4 HR 4147	"	50	12 32	13 22	1 38	2 28 +2 25
HU 4868	5 HR 4806	"	50	14 00	14 50	3 06	3 56 +1 49
HU 4869	6 HR 5285	"	6	15 20	15 26	4 26	4 32 +1 19
	15-16/V/78 K.						
HU 4870	1 HR 4196	103a-E	12	12 01	12 13	0 19	0 31 +1 26
HU 4871	2 HR 4625	"	14	12 38	12 52	0 56	1 10 +0 38



$D_{H_2} = 40 \frac{\text{Å}}{\text{mm}}$   
 $R: a = 1 + 14^d, b = 2^2$

	$N_2 40^3$	$F_{\text{adm.}} = 32,5$	$c = 5$	$t = 19,7^{\circ}C$	
4	"	"	"	19.5	
"	"	"	"	21.6	con De
"	"	"	"	21.0	con De
"	"	"	"	21.0	
"	"	"	5p	17.5	
"	"	"	4	15.1	
"	"	"	5	14.7	
"	"	"	"	13.7	
"	"	"	"	13.3	Paraxial
"	"	"	3	12.9	umbes.
"	"	"	4	12.7	
"	$N_2 50^3$	"	5	16.7	
"	"	"	"	16.1	
"	"	"	"	15.1	
"	"	"	"	14.0	
"	"	"	"	14.0	
"	"	"	1	14.0	
"	"	"	"		
"	"	"	"	13.4	
"	"	"	"	13.0	

19-20/V/78 K.

T. S.

T. U.

A. P. m.

HU 4872	4	HR 3990	103a-E	6	11 23	11 29	23 25	23 31	+1 18
HU 4873	5	HR 4206	"	26	11 53	12 19	23 55	0 21	+1 24
HU 4874	6	HR 4262	"	30	12 42	13 12	0 44	1 14	+2 05
HU 4875	7	HR 4876	"	32	13 48	14 20	1 50	2 22	+1 13
HU 4876	8	HR 5036	"	32	14 40	15 12	2 42	3 14	+1 36
HU 4877	9	HR 5440	"	4	15 43	15 47	3 45	3 49	+1 12
HU 4878	10	HR 5571	"	8	16 01	16 09	4 03	4 11	+2 09
HU 4879	11	HR 5576	"	14	16 21	16 35	4 23	4 37	+1 31
HU 4880	12	HR 5928	"	3	17 10	17 13	5 12	5 15	+1 17

5-6/VI/78 K.

HU 4881	1	HR 5651	103a-E	8	15 21	15 29	2 17	2 25	+0 15
HU 4882	2	HR 5736	"	16	15 51	16 07	2 47	3 03	+0 34
HU 4883	3	HR 5780	"	12	16 34	16 46	3 30	3 42	+1 08
HU 4884	4	HR 5801	"	32	17 07	17 39	4 03	4 35	+1 48

11-12/VIII/78 K.

HU 4885	2	HR 7074	103a-E	4	19 10	19 14	1 41	1 45	+0 22
HU 4886	3	HR 7254	"	4	19 30	19 34	2 01	2 05	+0 24
HU 4887	4	HR 7355	"	28	20 03	20 31	2 34	3 02	+0 55
HU 4888	5	HR 8019	"	50	21 06	21 56	3 37	4 27	+0 33

18-19/XIII/78 K.

HU 4889	1	HR 8381	103a-E	30	22 25	22 55	4 29	4 59	+0 41
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11-12/XII/78 K.

HU 4890	1	HR 338	103a-E	5	2 49	2 54	1 19	1 24	+1 44
HU 4891	2	HR 806	"	5	3 26	3 31	1 56	2 01	+0 49
HU 4892	3	HR 806	"	4	3 51	3 55	2 21	2 25	+1 14

$D_{ky} = 40 \frac{\text{Å}}{\text{mm}}$   
 $R: a \approx 1^2 + 14^2, l = 2^2$

$N_e 50^3$        $F_{\text{cam.}} = 32.5$        $C = 5$        $t = 13.0 \text{ e-}$

"	"	"	"	12.5	
"	"	"	"	12.2	
"	"	"	"	11.9	
"	"	"	"	11.7	
"	"	"	"	11.6	con Dc
"	"	"	"	11.3	" "
"	"	"	"	10.9	" "
"	"	"	"	11.0	
"	"	"	"	7.2	
"	"	"	"	7.2	
"	"	"	"	7.3	
"	"	"	"	7.3	
"	"	"	"	9.1	
"	"	"	"	8.8	
"	"	"	"	8.3	
"	"	"	"	7.4	
"	"	"	"	6.0	
"	"	"	"	22.5	
"	"	"	"	22.3	
"	"	"	"	22.1	

8

					T. S.	T. U.	A. P. m.
	11-12/XII/78	K.					
HU 4893	4 HR 1092	103a-E	22	4 48	5 10	3 18 3 40	+1 29
	19-20/XII/78	K.					
HU 4894	1 HR 1423	103a-E	16	5 40	5 56	3 39 3 55	+1 21
HU 4895	2 HR 1772	"	30	6 40	7 10	4 39 5 09	+1 35
	1-2/II/79	K., BZ					
HU 4896	2 HR 2678	103a-E	16	7 43	7 59	2 48 3 04	+0 46
HU 4897	3 HR 2819	"	14	8 20	8 34	3 25 3 39	+1 05
HU 4898	4 HR 2827	"	5	8 58	9 03	4 03 4 08	+1 37
HU 4899	5 HR 3022	"	22	9 25	9 47	4 30 4 52	+1 51
	20-21/II/79	K., BZ					
HU 4900	1 HR 3168	103a-E	30	8 44	9 14	2 35 3 05	+0 56
HU 4901	2 HR 3204	"	12	10 07	10 19	3 58 4 10	+2 04
	7-8/III/79	K., BZ					
HU 4902	1 HR 3022	103a-E	24	8 38	9 02	1 29 1 53	+1 05
HU 4903	2 HR 3498	"	4	9 20	9 24	2 11 2 15	+0 36
HU 4904	3 HR 3878	"	42	10 00	10 42	2 51 3 33	+0 37
HU 4905	4 HR 4172	"	26	11 08	" 34	3 59 4 25	+0 54
<del>HU 4906</del>	9-10/III/79	K., BZ					
HU 4906	1 HR 2819	103a-E	14	8 35	8 49	1 18 1 32	+1 20
HU 4907	2 HR 2819	"	20	9 07	9 27	1 50 2 10	+1 55
HU 4908	4 HR 3878	"	40	10 58	11 38	3 41 4 21	+1 34
	14-15/III/79	K., BZ					
<del>HU 4909</del>	2 HR 3498	103a-E	6	9 39	9 45	2 03 2 09	+0 56
HU 4910	3 HR 3488	"	36	10 12	10 48	2 36 3 12	+1 45
HU 4911	4 HR 3941	"	34	11 44	12 18	4 08 4 42	+2 05

$$D_{\text{avg}} = 40 \frac{\text{\AA}}{\text{mm}}$$

$$R: a = 1^2 + 14^2; b = 2^2$$

	Ne 50 <sup>s</sup>	F <sub>corr</sub> = 32.5	c = 5	t = 21.7 e
"	Ne 60 <sup>s</sup>	"	"	24.0
"	"	"	"	23.7
"	"	"	"	23.5
"	"	"	"	23.3
"	"	"	"	23.2
"	"	"	4-3	23.3
"	"	"	5	20.9
"	"	"	4	20.5
"	"	"	5	18.3
"	"	"	"	18.1
"	"	"	"	16.7
"	"	"	"	16.7
"	"	"	"	19.2
"	"	"	"	19.0
"	"	"	"	18.0
"	"	"	"	20.8
"	"	"	"	20.5
"	"	"	"	20.0

Con De

10

T.S.

T.V.

A. P. m.

HU 4912	5	HR 3468	103a-E	16 9 32	9 48	152	2 08	+0 57
HU 4913	6	HR 3708	"	16 10 15	10 31	2 35	2 51	+1 06

2-XI-79 K, B<sub>2</sub> (Poleico)

Después de hacerse nuevo objetivo de la cámara de  $D_{Hj} = 40 \frac{A}{mm}$ , el enfoque de la misma queda  $F = 37,0$  con la exposición de  $t_e = 70^5$  en las placas 103a-E.

8-9/XI/79 K, B<sub>2</sub>

HU 4914	1	HR 8858	103a-E	5 0 10	0 14	0 51	0 56	+0 56
HU 4915	2	HR 8858	"	4 0 25	0 29	1 07	1 11	+1 10
HU 4916	3	HR 9098	"	6 1 50	1 56	1 32	1 38	+1 51

12-13/XI/79 K, B<sub>2</sub>

1	HR 8816	103a-E	80	1 18	2 38	1 44	3 04	+2 49
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26-27/XI/79 K, B<sub>2</sub>, S (Golvella)

HU 4917	3	HR 338	103a-E	4 4 20	4 27	3 50	3 57	+3 16
HU 4918	4	HR 1441	103a-E	24 4 55	5 19	4 25	4 49	+0 36

27-28/XI/79 K, B<sub>2</sub>, S

HU 4919	1)	HR 338	103a-E	4 3 48	3 52	3 14	3 18	+2 43
HU 4920	2	HR 1423	103a-E	16 <sup>2</sup> 4 55	5 11	4 21	4 33	+0 36

1

$D_{Hf} = 40 \frac{A}{mm^2}$   
 $R: a = 1.714^4, b = 2^2$

$N_e 70^3$        $F_{c\acute{a}m.} = 32.5$        $c = 5$        $t = 20.3 - 20.1$       Con De

"      "       $F_{c\acute{a}m.} = 37.0$        $c = 5$        $t = 13.2$   
 "      "      "      "      13.1  
 "      "      "      "      12.0

"      "       $F_{c\acute{a}m.} = 36.75$        $c = 5$        $t = 17.3$   
 "      "      "      "      17.1  
 "      "       $F_{c\acute{a}m.} = 37$        $c = 5$        $t = 20.4$   
 "      "      "      "      19.8

hay movimiento de los prismas

HU 4169 = BS 3710

HX 4209 = 5327

HU 4218 = 6681

HU 4220 = 5773

HU 4265 = 1441

HU 4271 = 1801

HU 4284 = 2829

HX ~~4303~~ = 4175

HU 4310 = 5439

HU 4320 = 5340

HU 4354 = 6881

HU 4363 = 8628

4370 = 1128

HU 4425 = HR 3363

4461 - 4250

4489 - 4140

4577 - 3498



HU 4621 = HR 6620

4636 = 6671

4687 = 7709

4738 = 2782

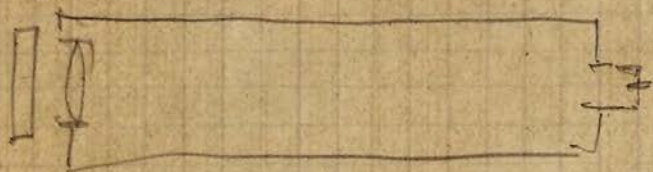
4818 = 983

4833 = 1367

4902 = 3022

# Espectrógrafo Hartmann.

## Enfoque colimador



X monocrom  
on

en las diólos

Se controla el enfoque anterior  
que resulta bueno

Colimada 7.9

25.5

34.8

1	33
2	35
3	37

1	34.0
2	34.5
3	35.0

1	35.0
2	35.5
3	36.0

$$T = 20^{\circ}.5$$

Fuogo cámara.

incl. 26.5 - m. 3°14'  
Ranura 2.5

1	35.0
2	35.2
3	35.4 (*)

Clasificación 3

1	35.2
2	35.3 x
3	35.4

Clasificación 4

Se acepta

m. 3°14'
incl. 26.5 :
cam. 35.3.

para  $T = 20^{\circ}.5$

para los dos clasificaciones

1	35.0
2	36.5 no
3	37.0

m. 2°44' , incl 26.5

1	40.0
2	41.0 no
3	42.0

1	38.5
2	39.0
3	39.5

m. 2°44' incl 26.3

1	38.3
2	38.5
3	38.7





