

SHELYAK III MICROMETER SETTINGS FOR HIGH RESOLUTION

Neon Lamp Spectra with some Ar contamination

He I added < 5100 Å

P. Hartigan & C. Gardner

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NOTES:

He I and Green Laser are separate lamps. Hg could also be added

HIGH RESOLUTION GRATING

2400 lines/mm R=17000

Red Limit: 7250 Å

Blue end goes out of focus on left side shortward of ~ 4400 Å

System throughput drops sharply shortward of 4100 Å

Additional potential blue lamp lines

Hg: 4046.565, 4077.837, 4358.335, 5460.750, 5769.610, 5790.670

He: 3888.648, 4026.191

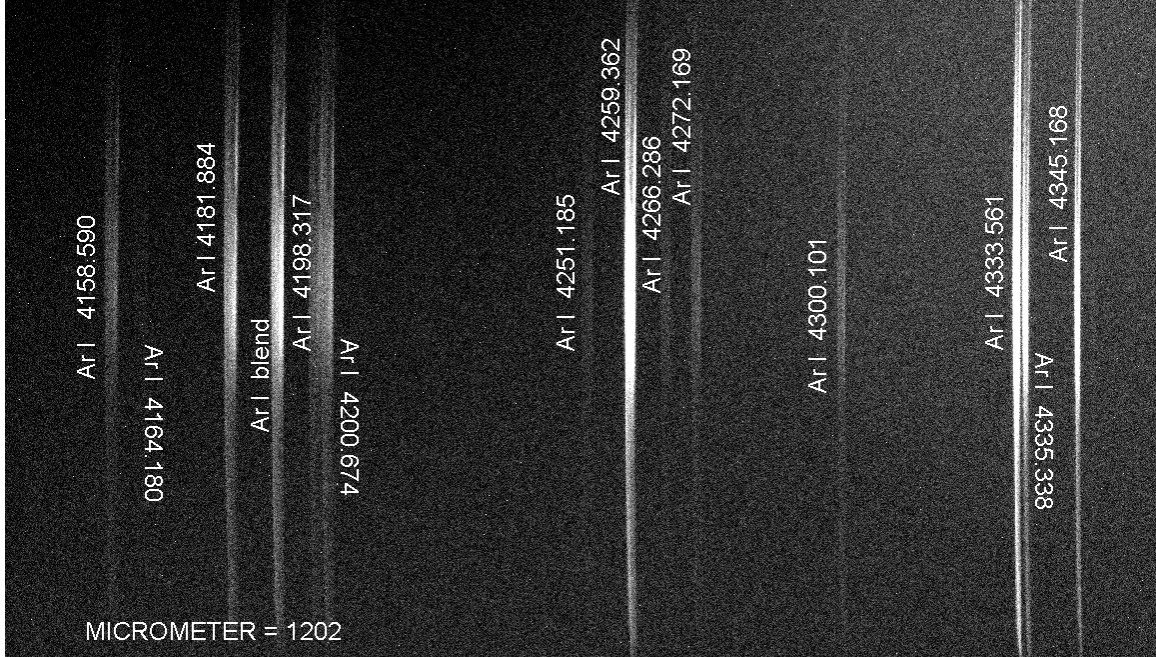
Ar: 3948.979, 4044.418

LOW RESOLUTION GRATING

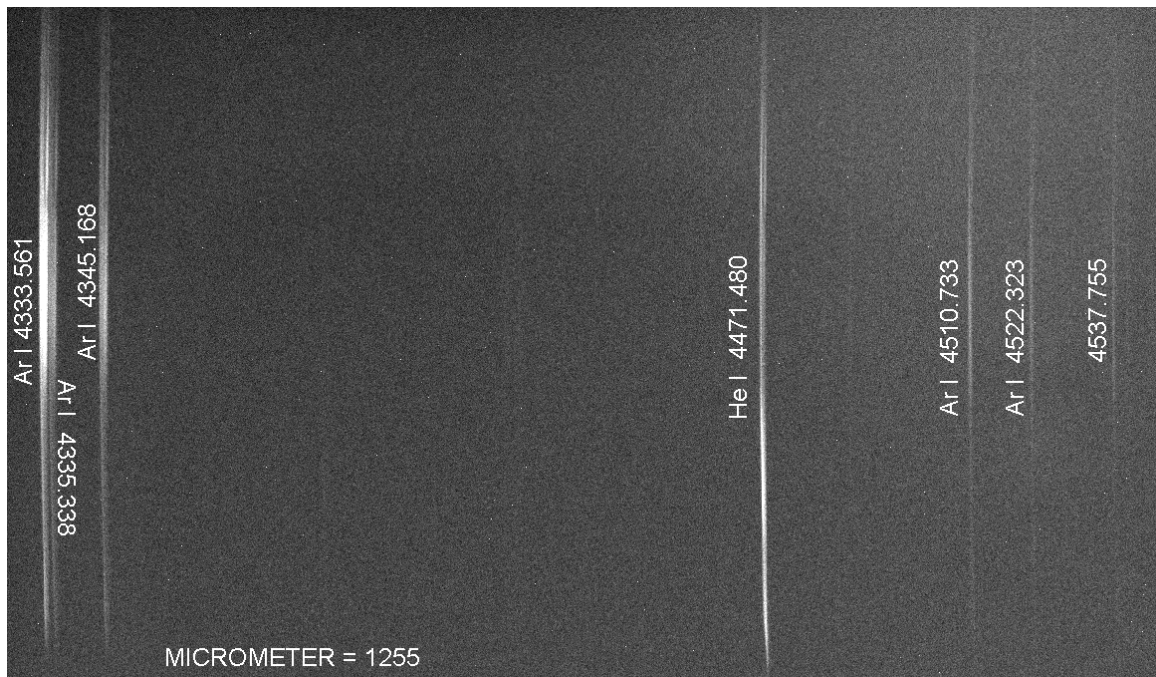
300 lines/mm R=2000

Micrometer setting = 303 to center first order

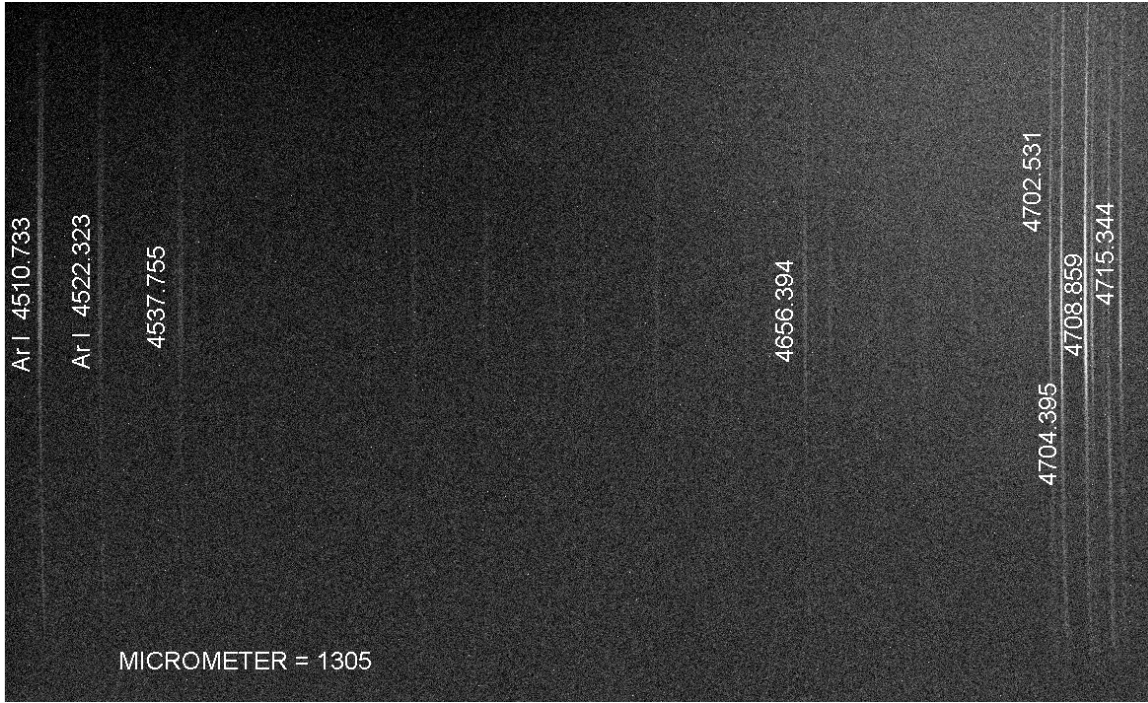
High Resolution Wavelength Settings



micrometer = 1202 (4250 A)



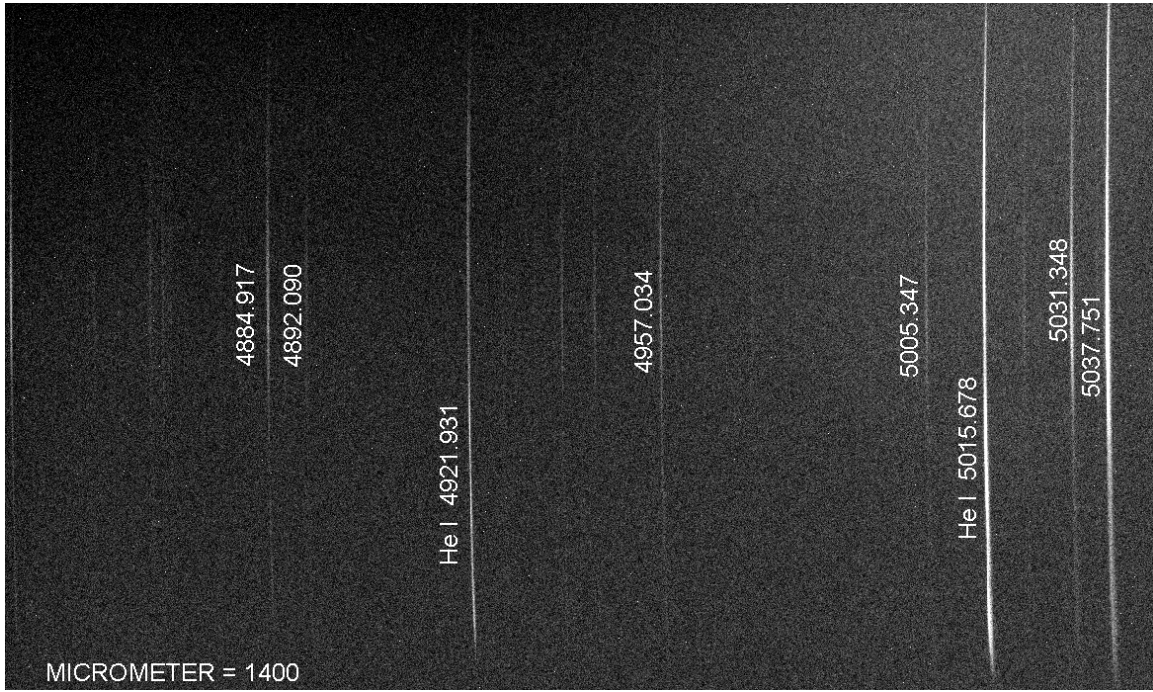
micrometer = 1255 (4450 A)



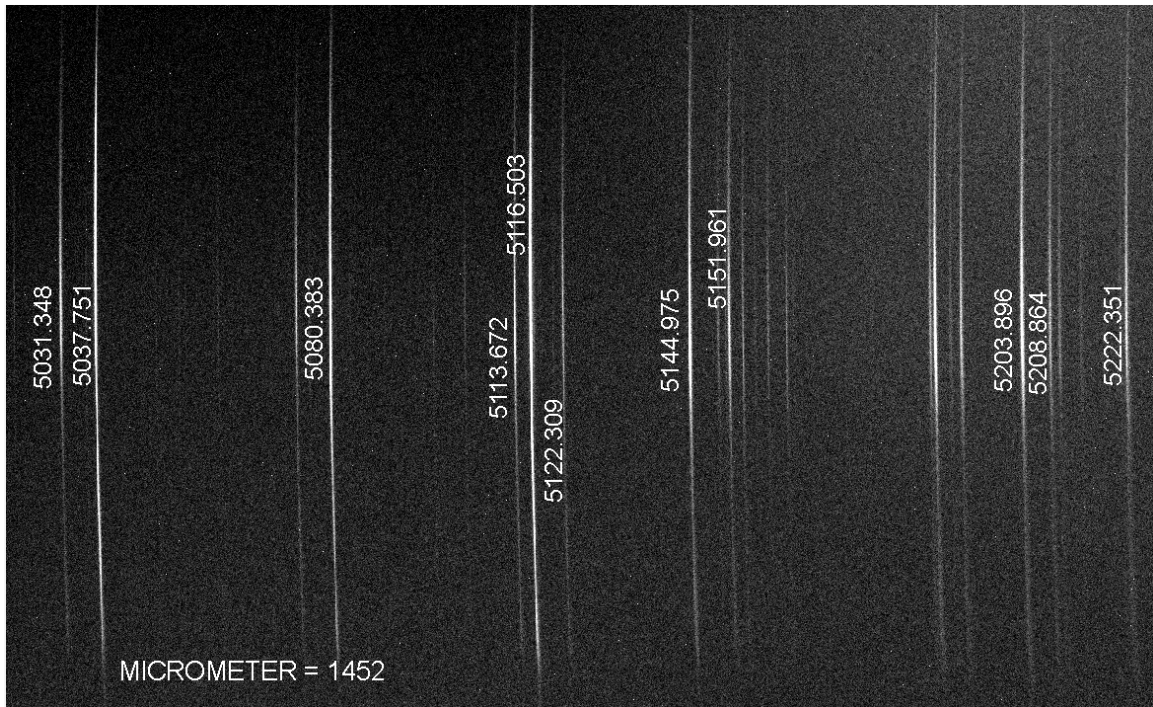
micrometer = 1305 (4600 A)



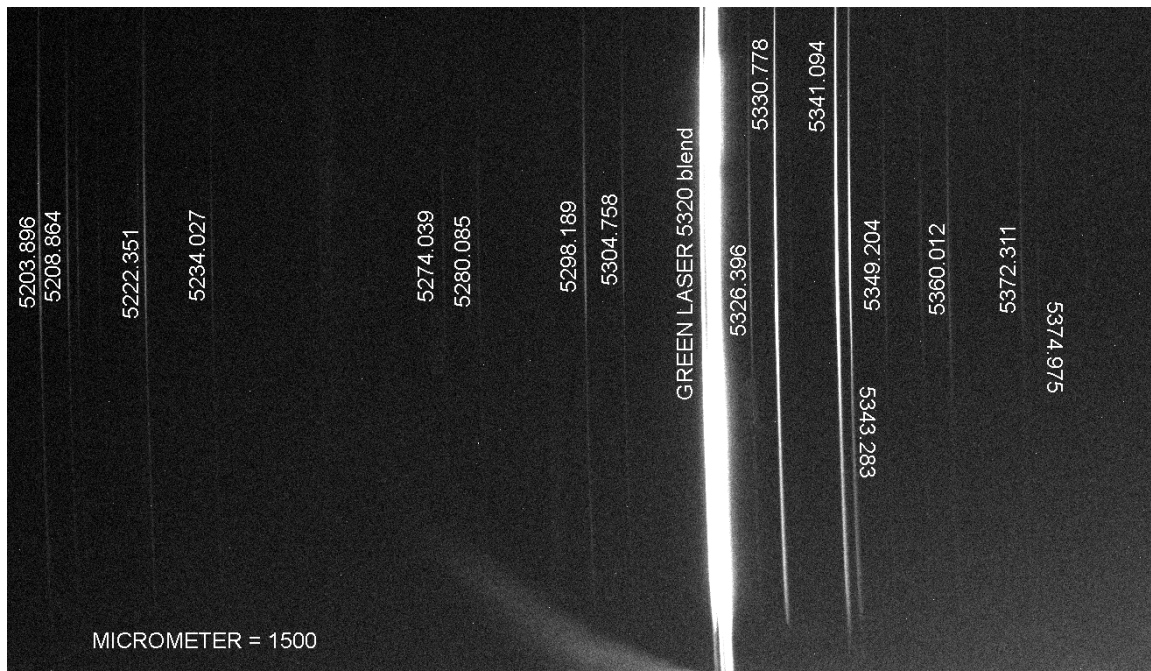
micrometer = 1360 (4810 A)



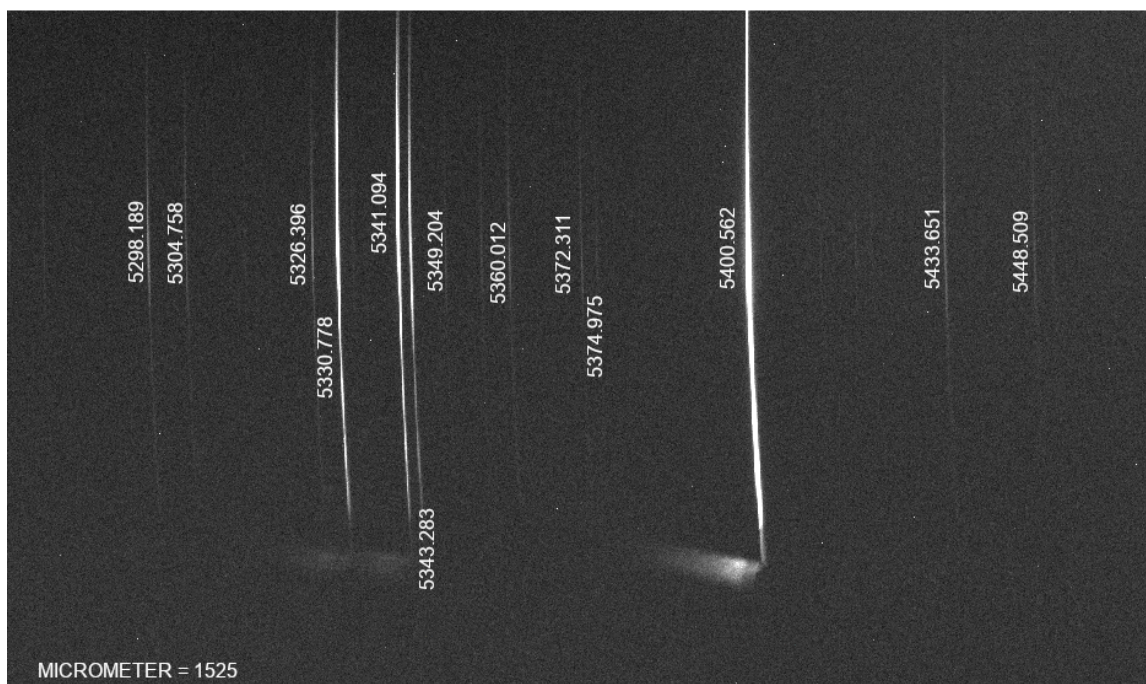
micrometer = 1400 (4950 A)



micrometer = 1452 (5125 A)



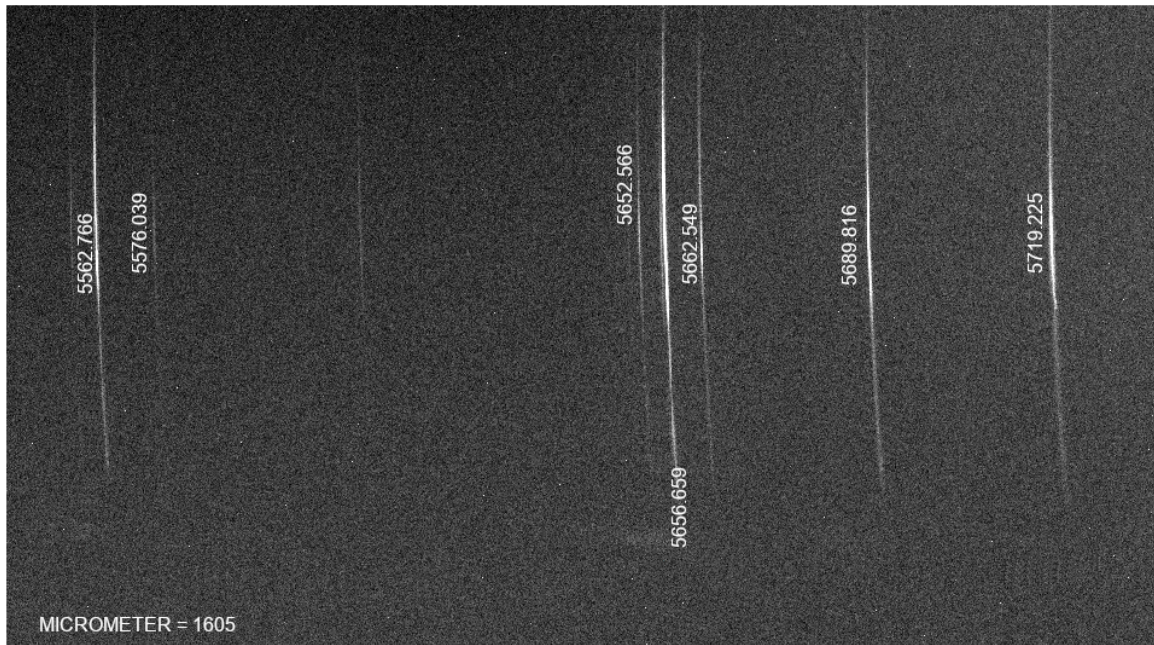
micrometer = 1500 (5290 A)



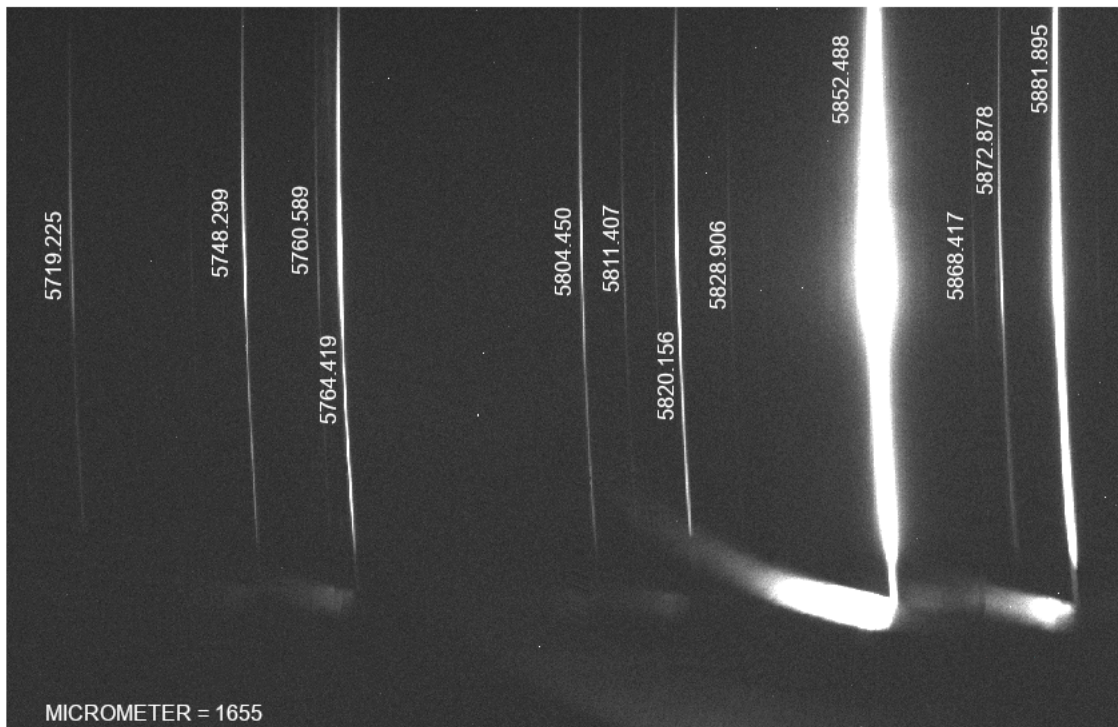
micrometer = 1525 (5370 A)



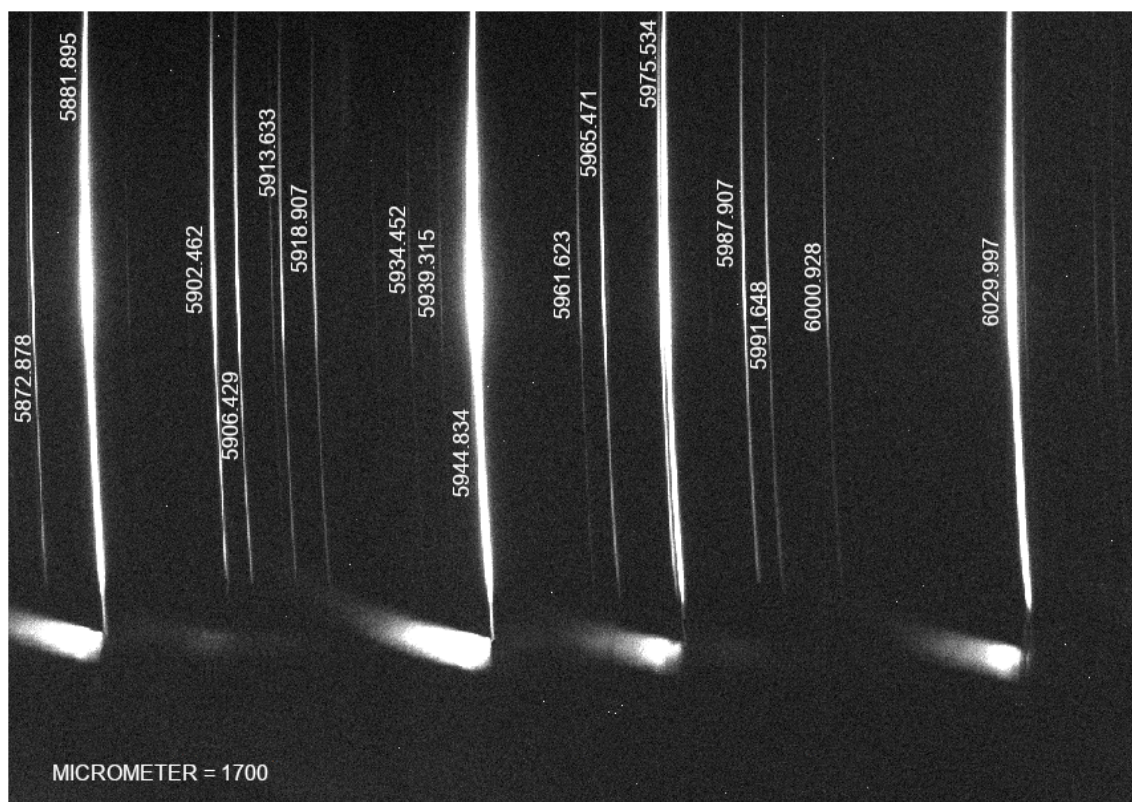
micrometer = 1553 (5490 A)



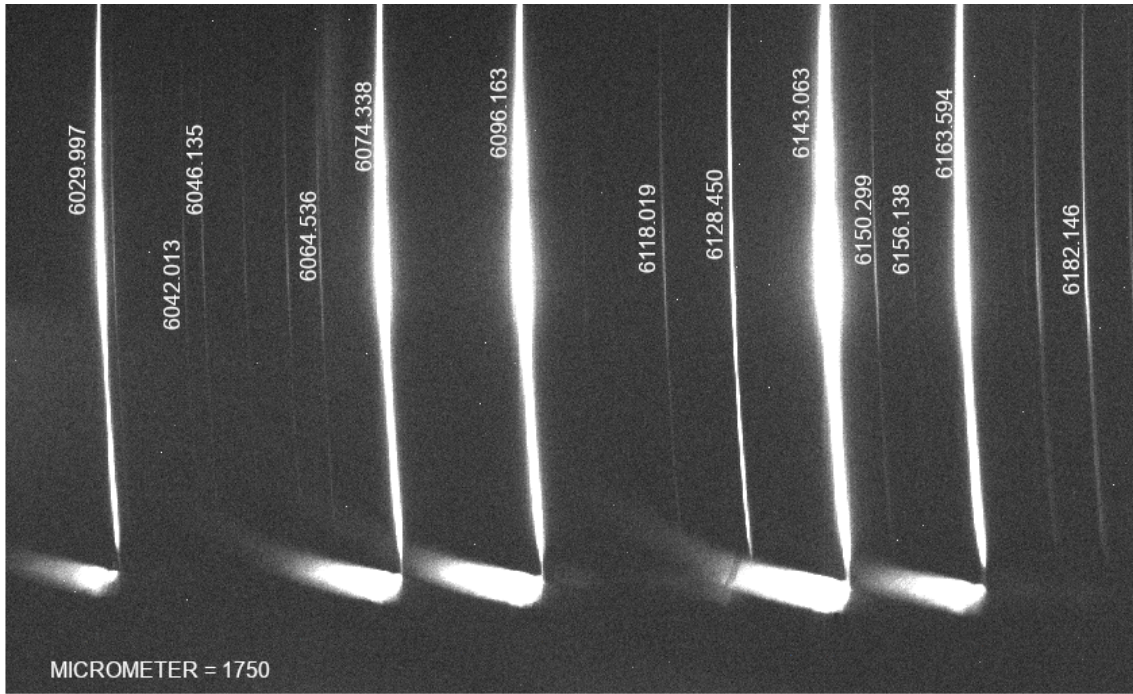
micrometer = 1605 (5645 A)



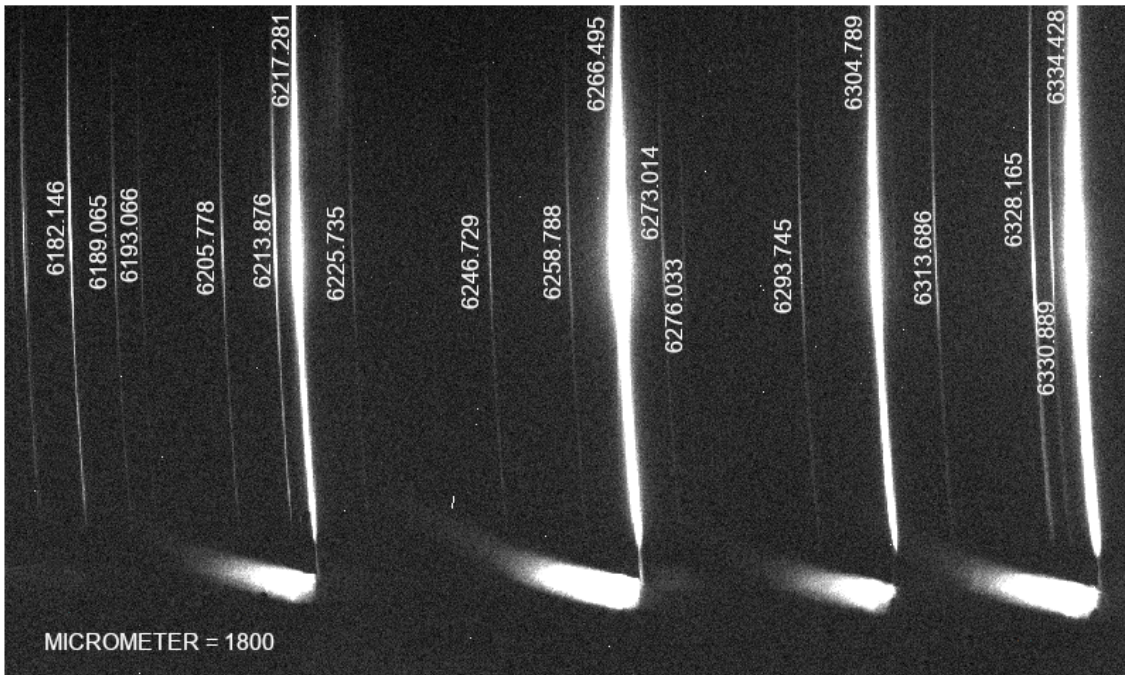
micrometer = 1655 (5805 A)



micrometer = 1700 (5960 A)



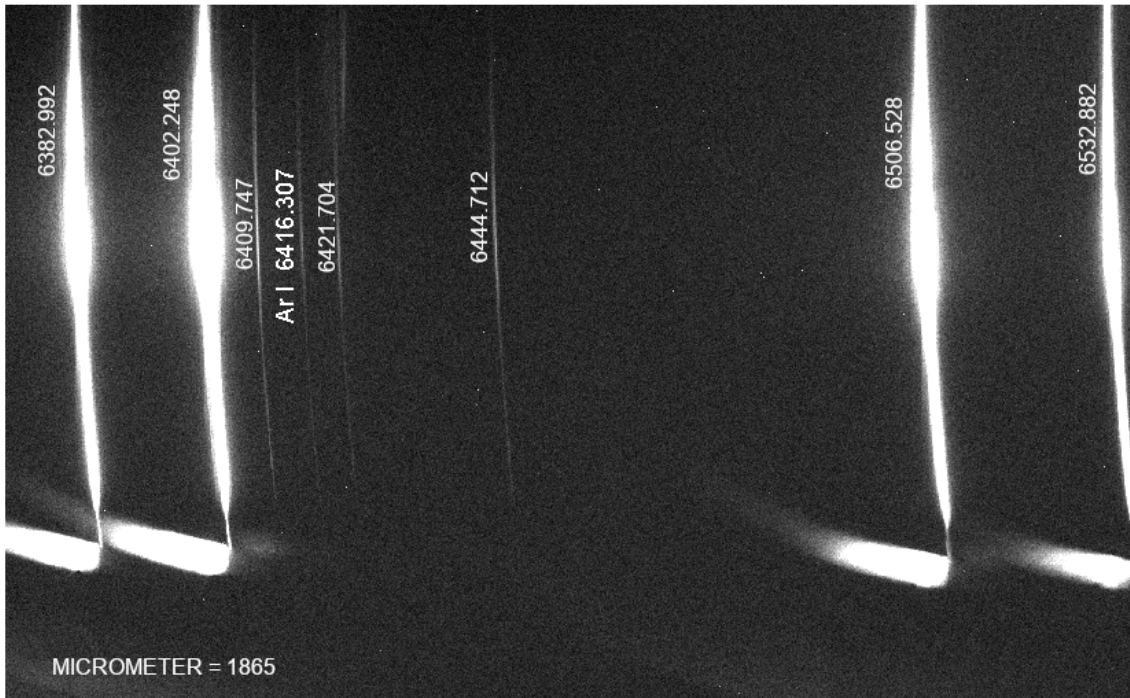
micrometer = 1750 (6105 A)



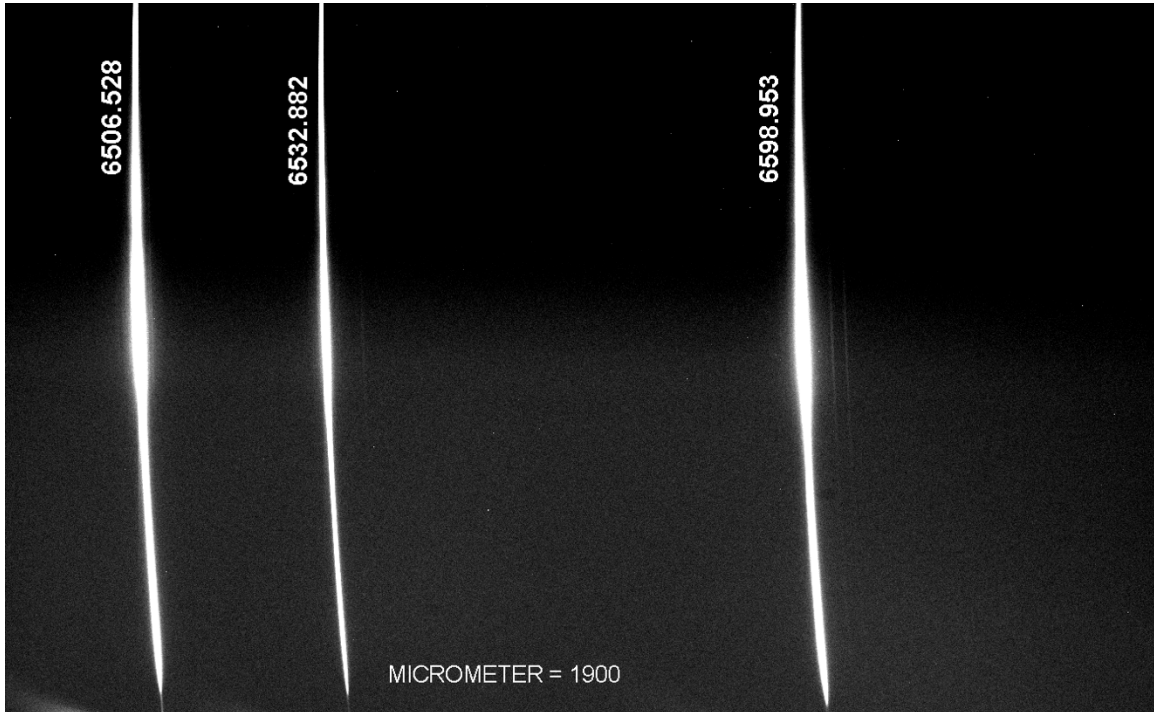
micrometer = 1800 (6260 A)



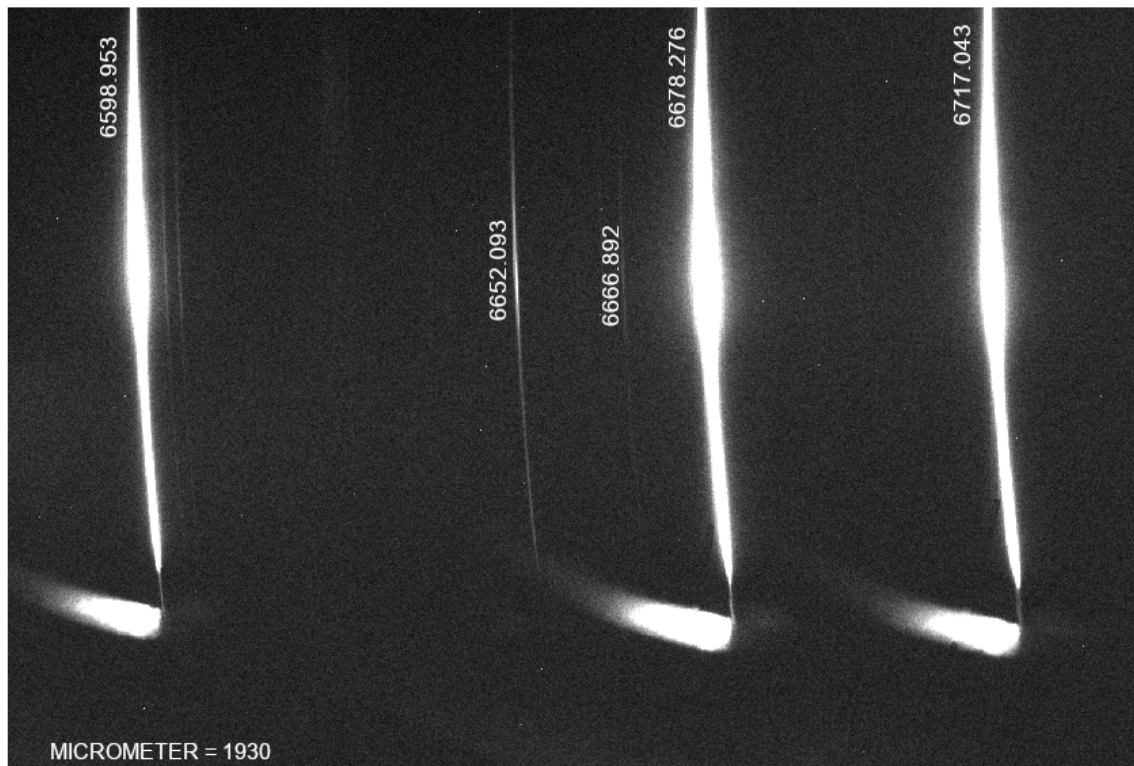
micrometer = 1830 (6345 A)



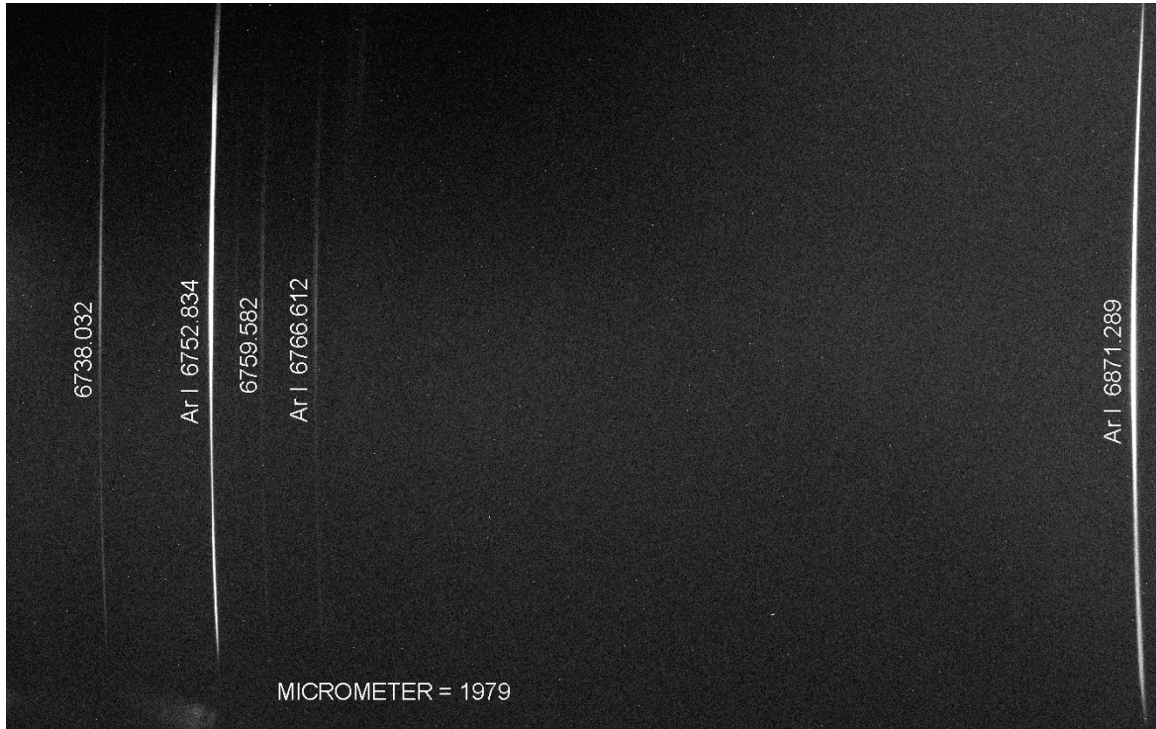
micrometer = 1865 (6450 A)



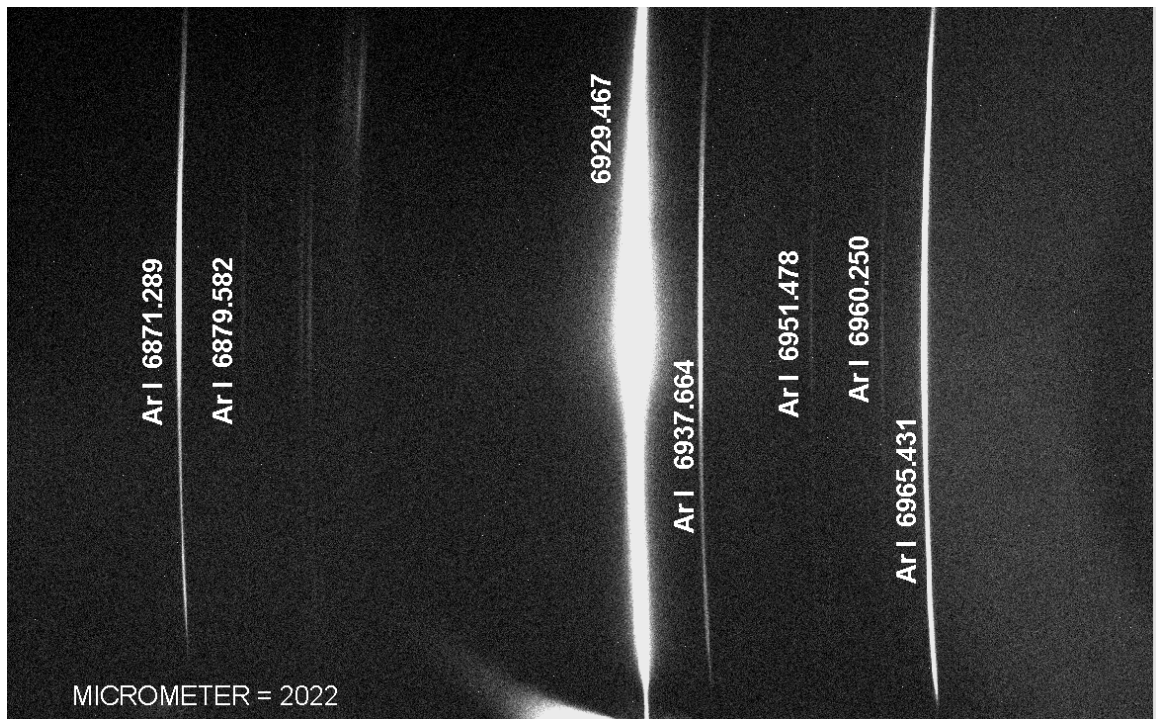
micrometer = 1900 (6570 A)



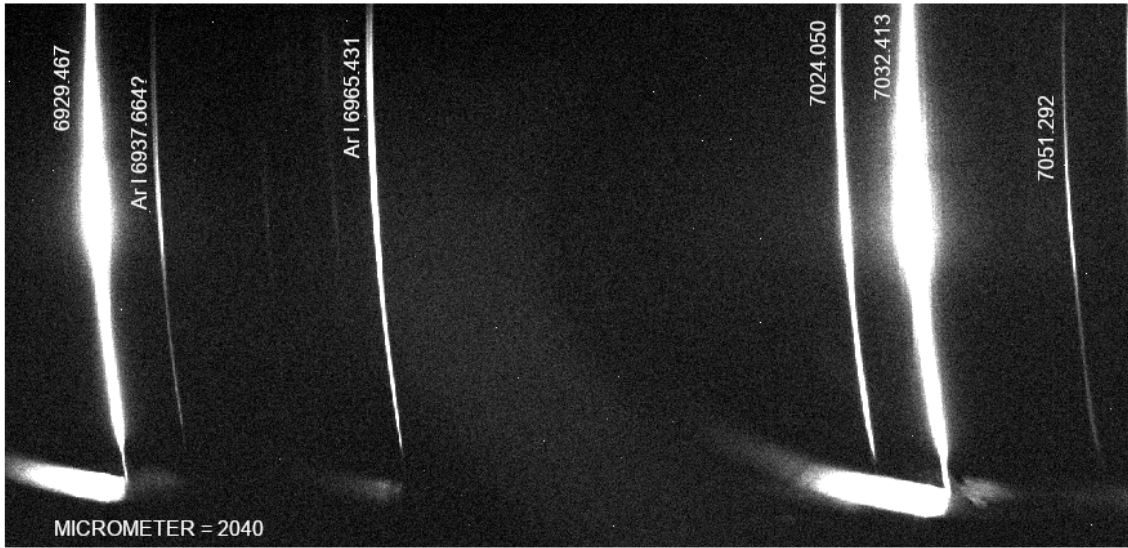
micrometer = 1930 (6655 A)



micrometer = 1979 (6810 A)



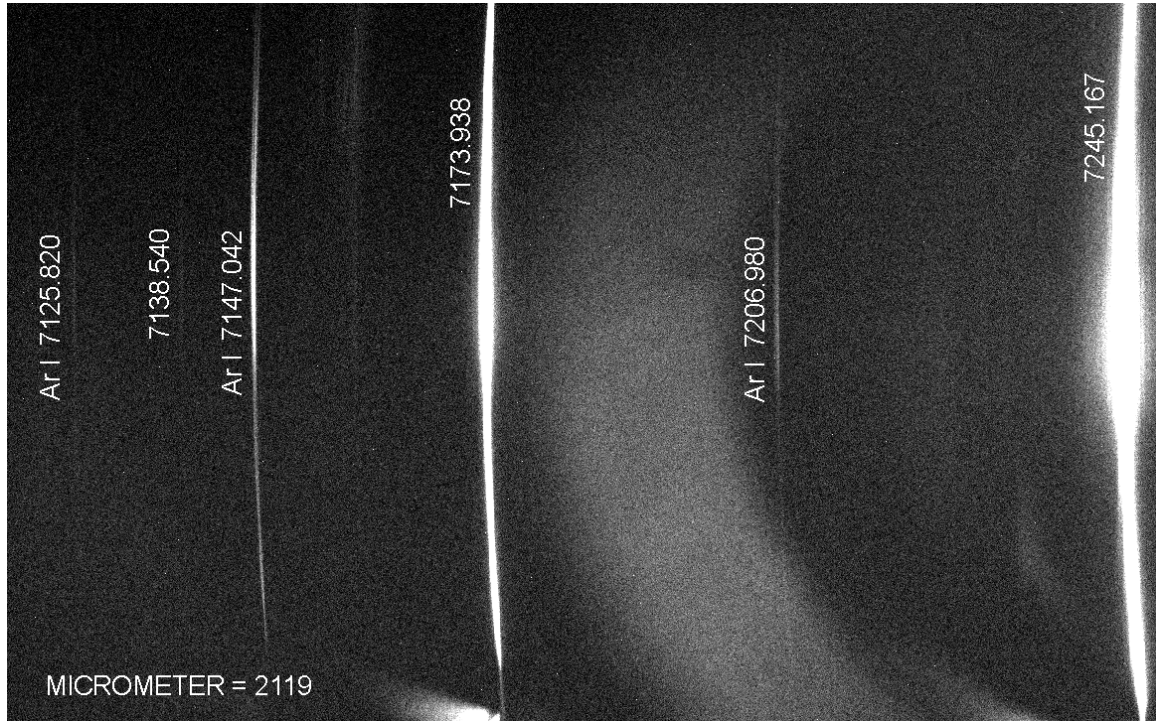
micrometer = 2022 (6925 A)



micrometer = 2040 (6990 A)



micrometer = 2088 (7115 A)

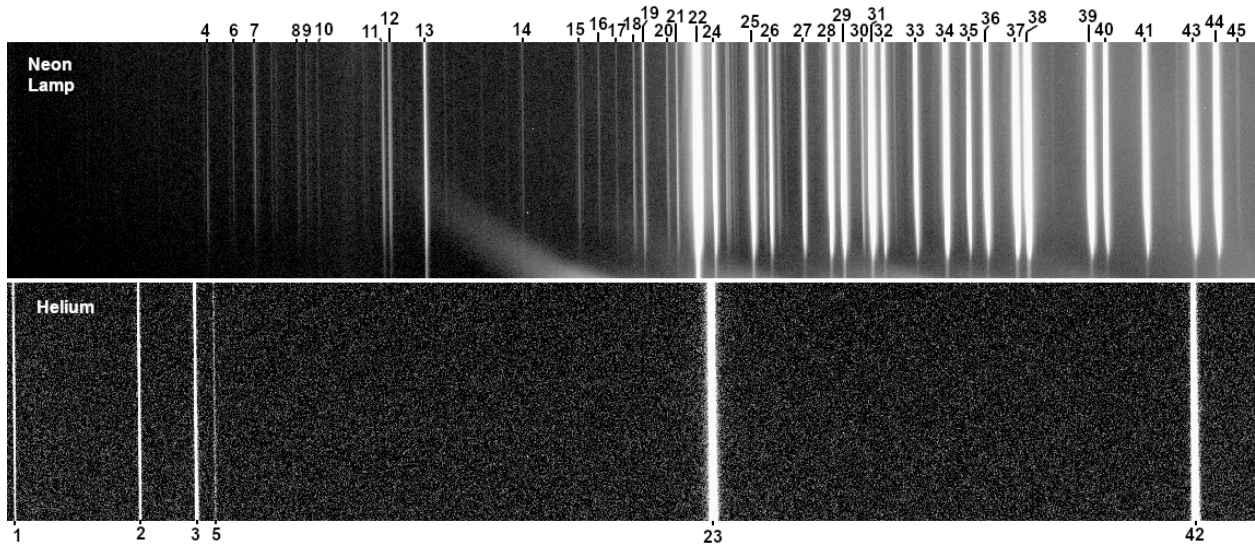


micrometer = 2119 (7180 A) [End of Travel]

LOW RESOLUTION GRATING

First Order

Micrometer = 303



He I 4026.192	9: Ne I 5203.896	31: Ne I 6143.063
Ar I 4044.418	10: Ne I 5222.351	32: Ne I 6163.594
Hg I 4046.565	11: Ne I 5330.778	33: Ne I 6217.281
Hg I 4077.837	12: Ne I 5341.585 (blend)	34: Ne I 6266.495
He I 4120.815	13: Ne I 5400.562	35: Ne I 6304.789
Ar I 4158.590	14: Ne I 5562.766	36: Ne I 6334.428
Ar I 4181.884	15: Ne I 5656.659	37: Ne I 6382.992
Ar I 4190.818 (blend)	16: Ne I 5689.816	38: Ne I 6402.248
Ar I 4199.888 (blend)	17: Ne I 5719.225	39: Ne I 6506.528
Ar I 4259.362	18: Ne I 5748.299	40: Ne I 6532.882
Ar I 4334.153 (blend)	19: Ne I 5764.419	41: Ne I 6598.953
Ar I 4345.168	20: Ne I 5804.450	42: He I 6678.151
Hg I 4358.335	21: Ne I 5820.156	43: Ne I 6678.276
He I 4471.480	22: Ne I 5852.488	44: Ne I 6717.043
1: He I 4713.146	23: He I 5875.621	45: Ar I 6752.834
2: He I 4921.931	24: Ne I 5881.895	Ar I 6871.289
3: He I 5015.678	25: Ne I 5944.834	Ne I 6929.467
4: Ne I 5037.751	26: Ne I 5975.534	Ar I 6965.431
5: He I 5047.738	27: Ne I 6029.997	Ne I 7024.050
6: Ne I 5080.383	28: Ne I 6074.338	Ne I 7032.413
7: Ne I 5116.503	29: Ne I 6096.163	Ne I 7173.938
8: Ne I 5188.612 (blend)	30: Ne I 6128.450	Ne I 7245.167