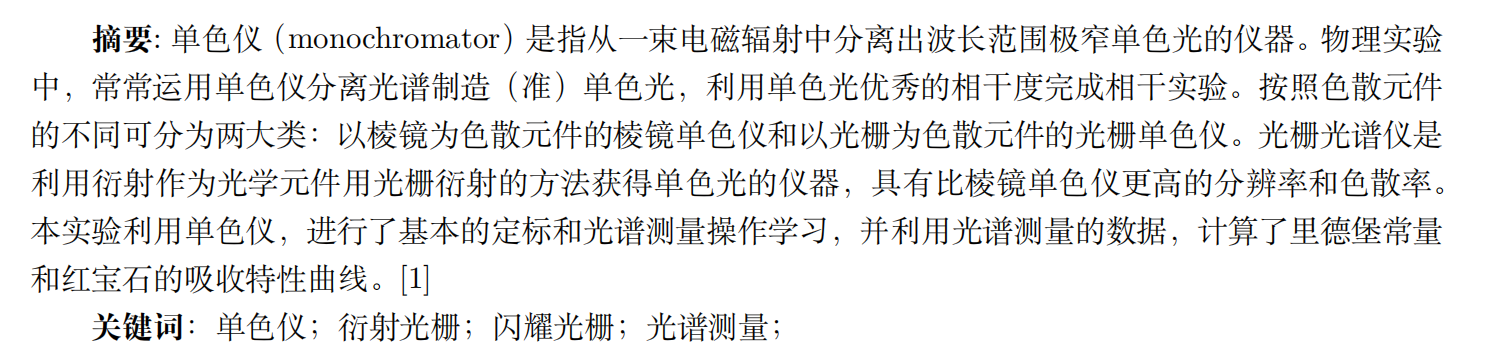
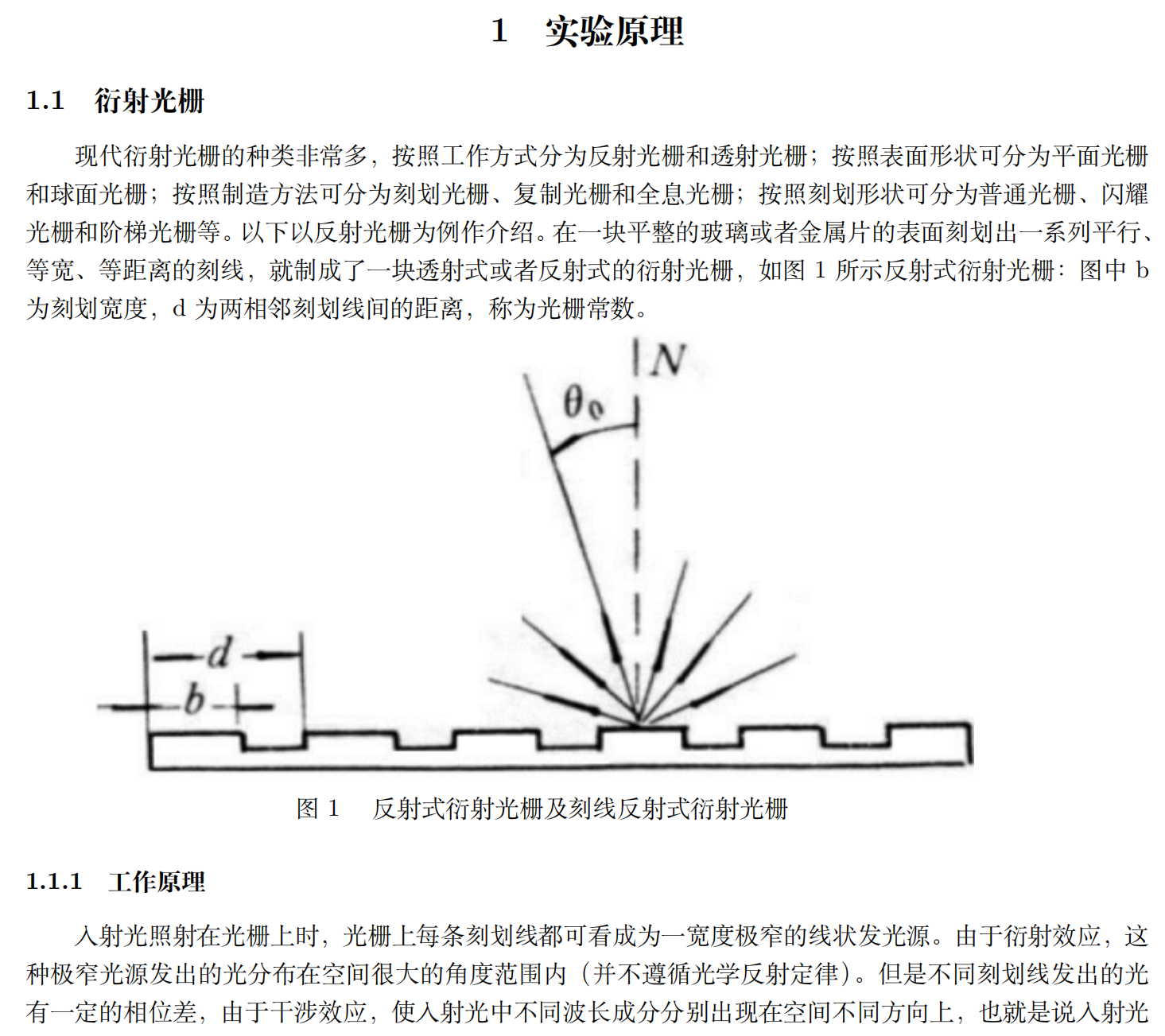
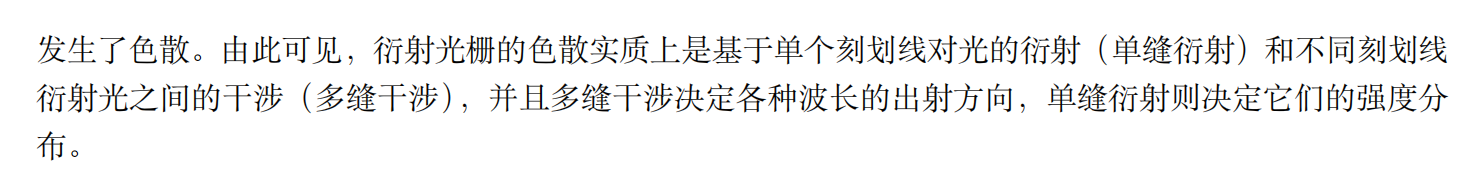
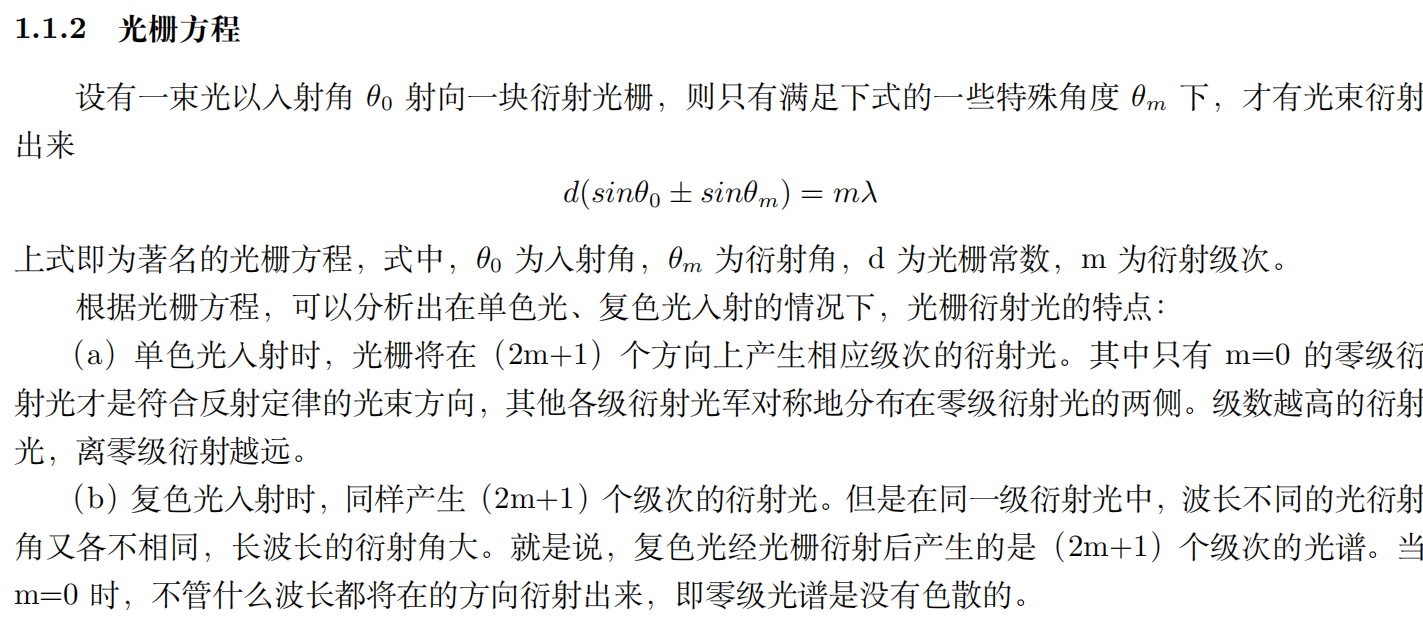
**单色仪定标和光谱测量**

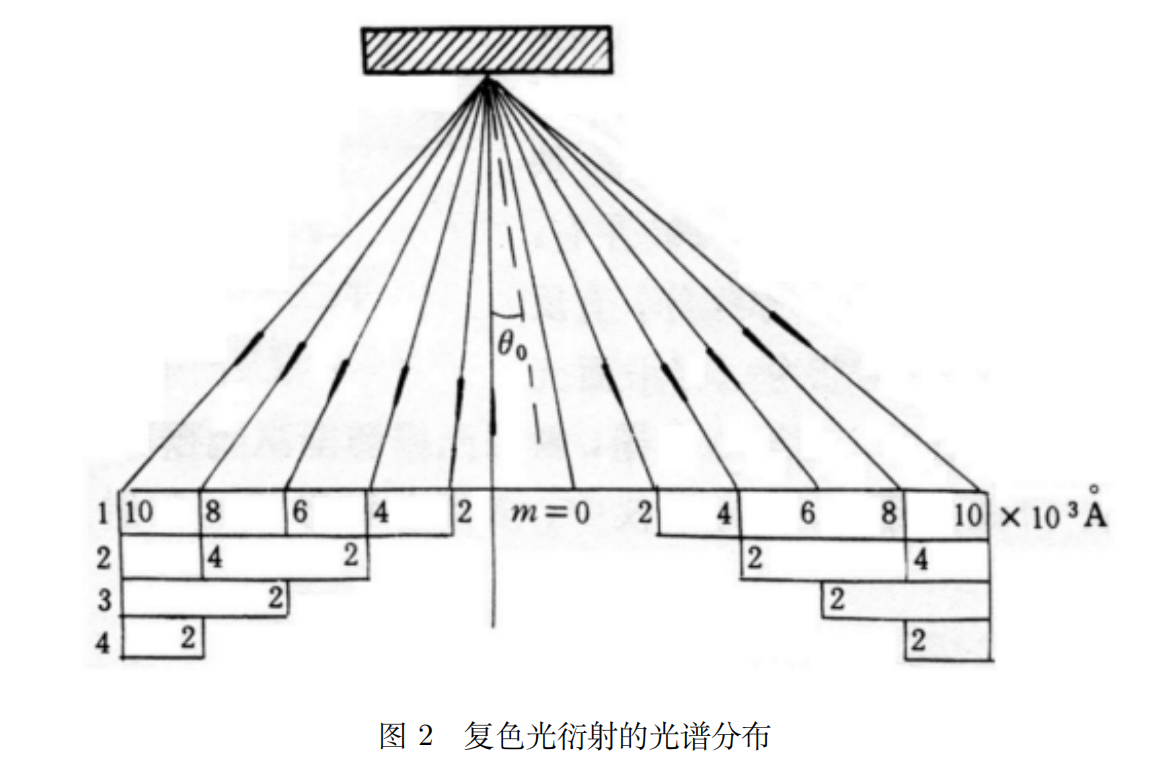
**2023年11月10日**

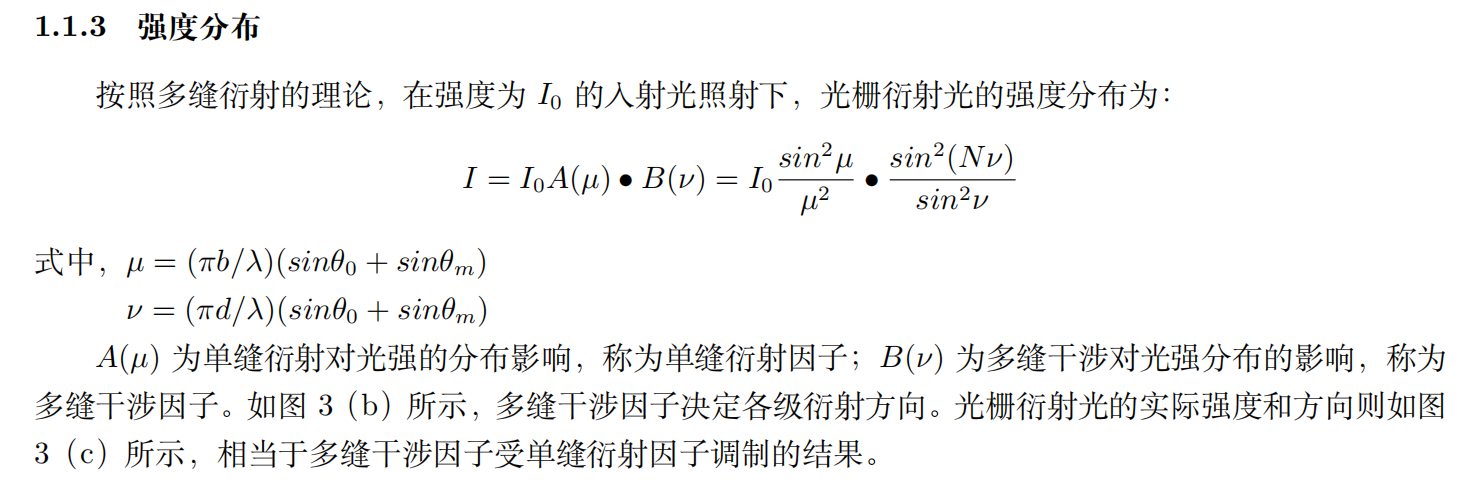


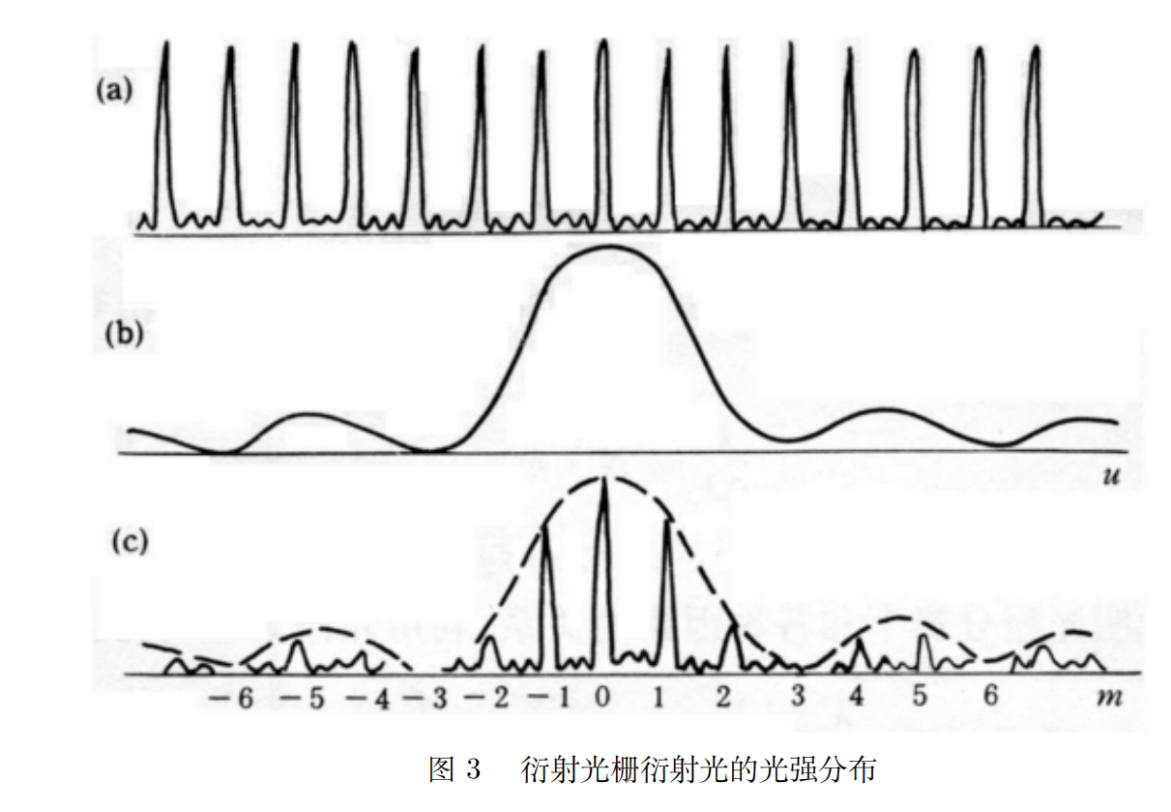


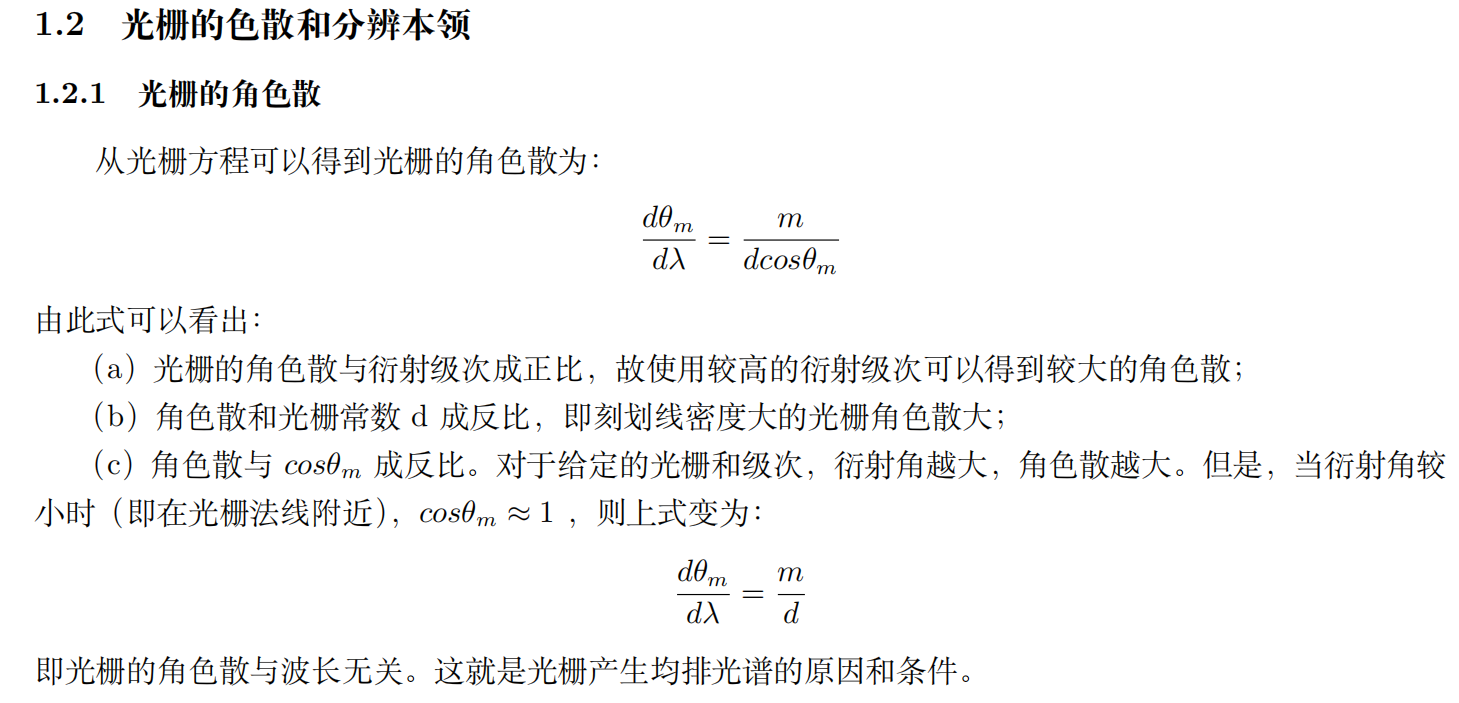


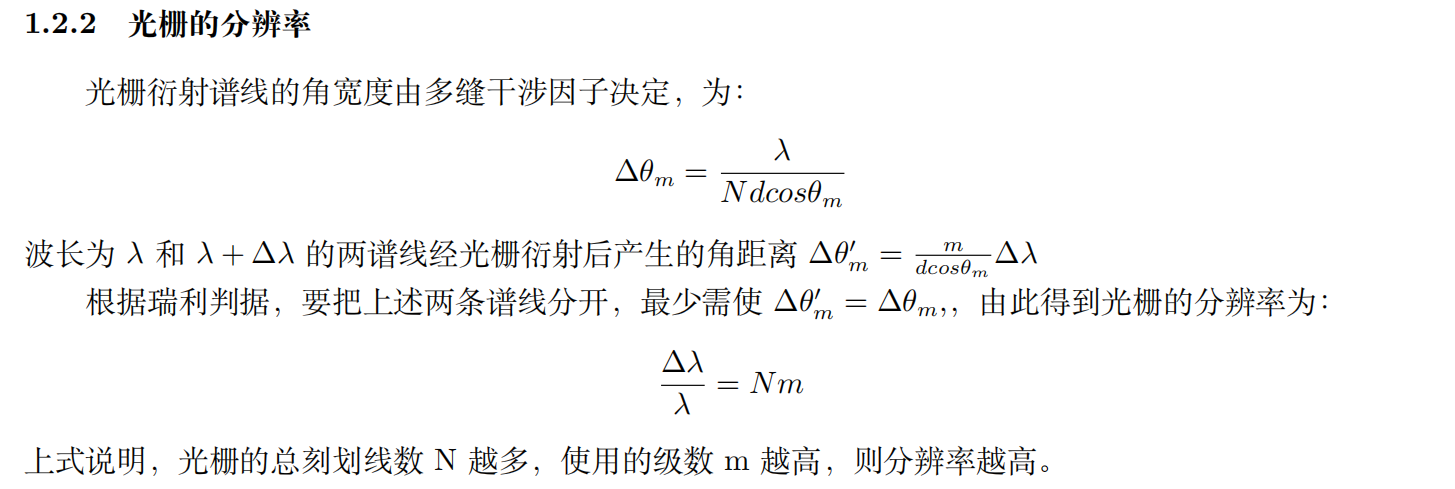


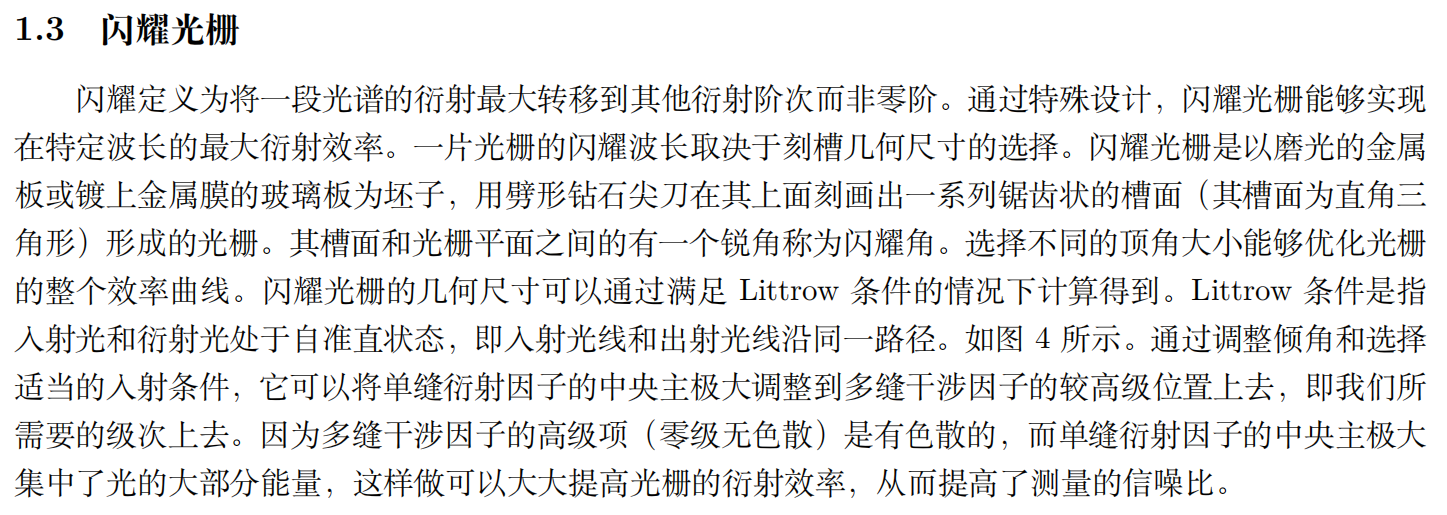


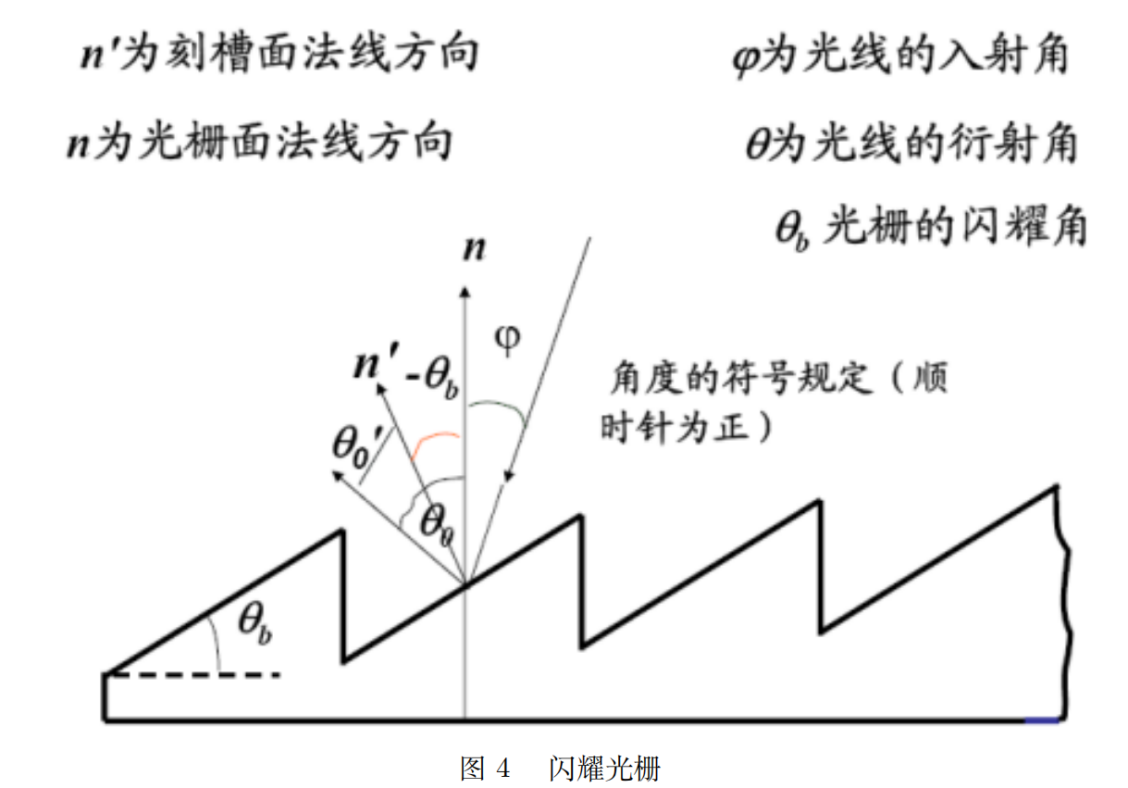


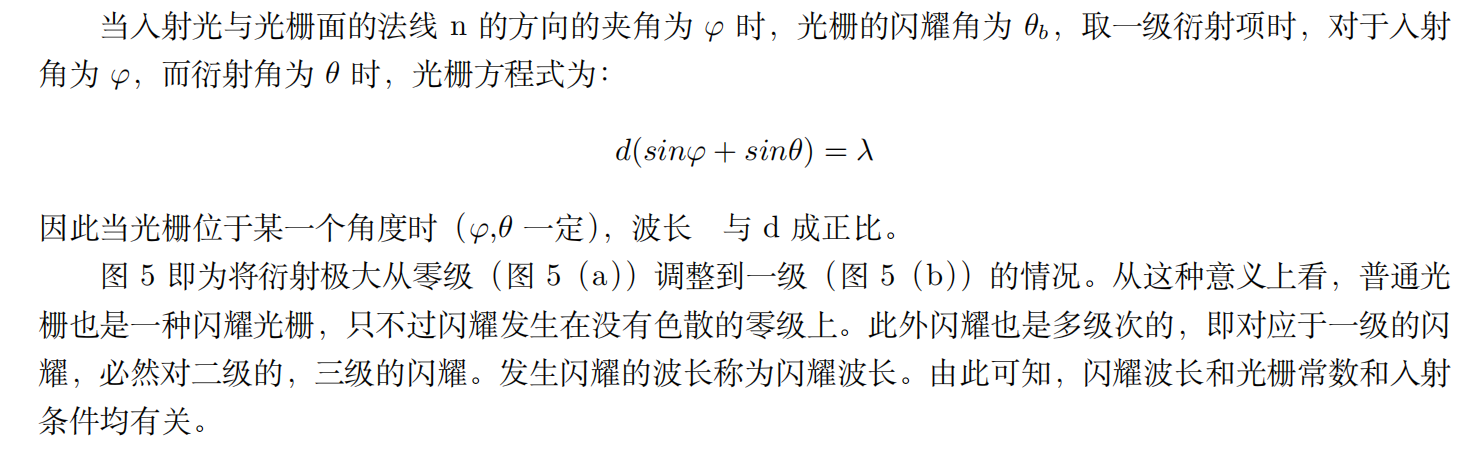




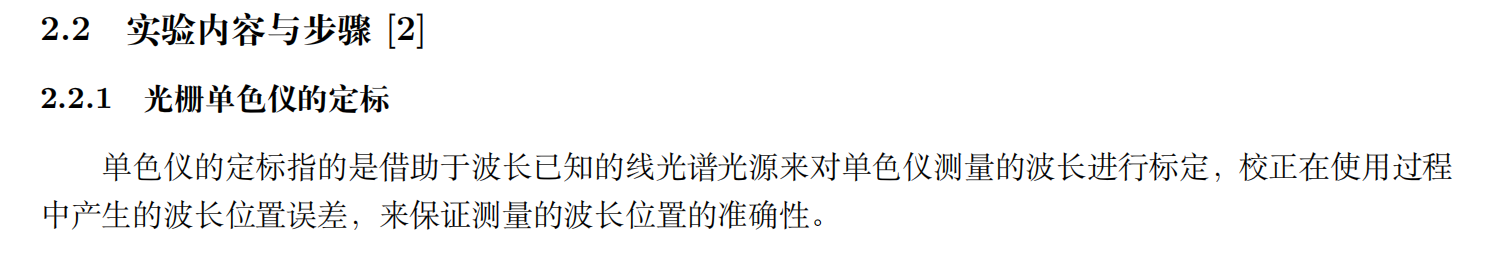


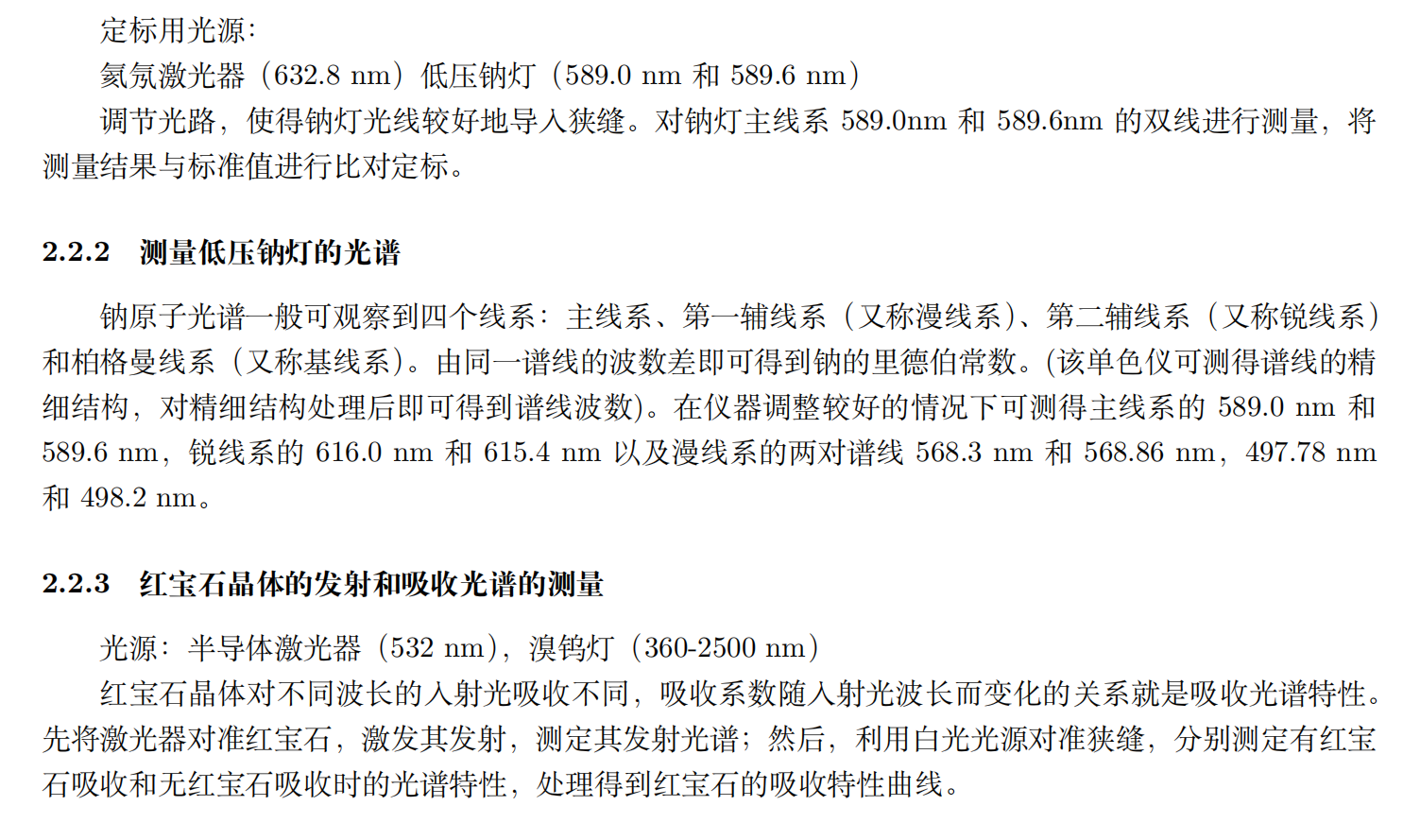


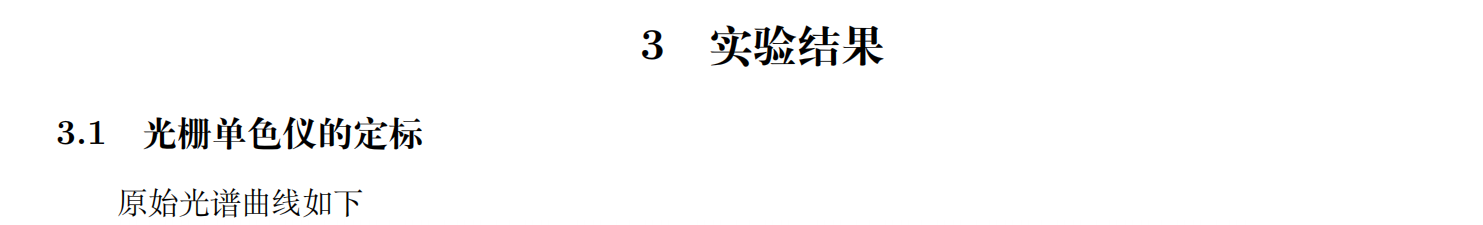










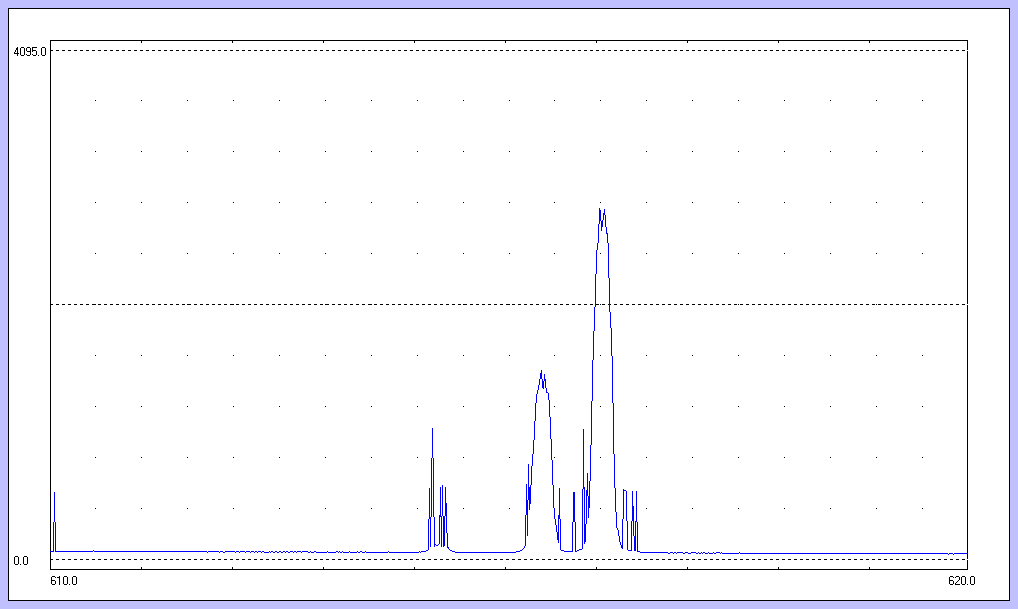




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钠主线系的波长为589.0nm/589.6nm，实际测量的两个峰值在588.975nm/589.613nm。

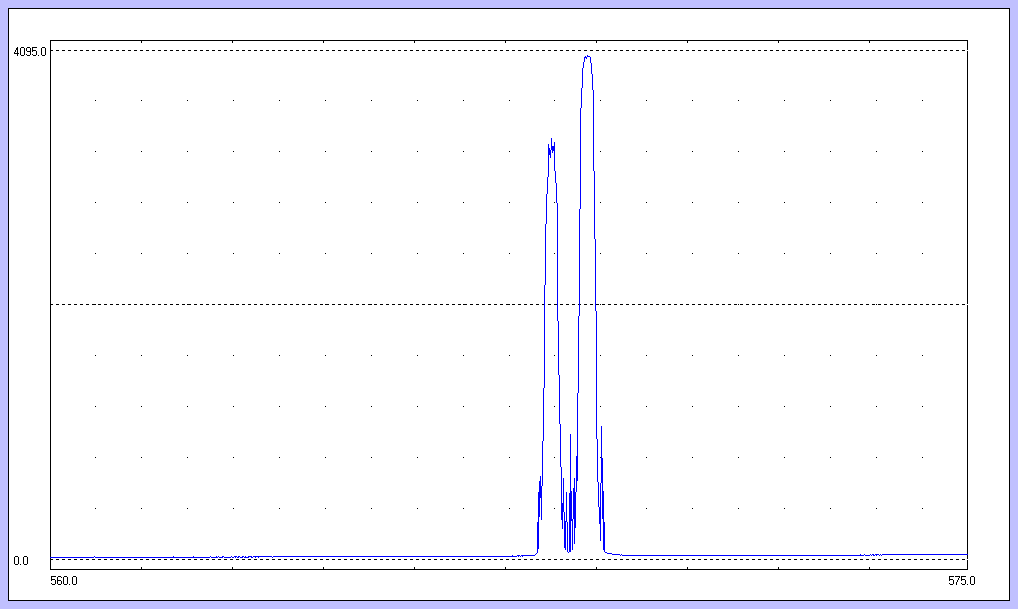




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钠锐线系的波长为615.4nm/616.0nm，实际测量的两个峰在615.388nm/615.988nm。

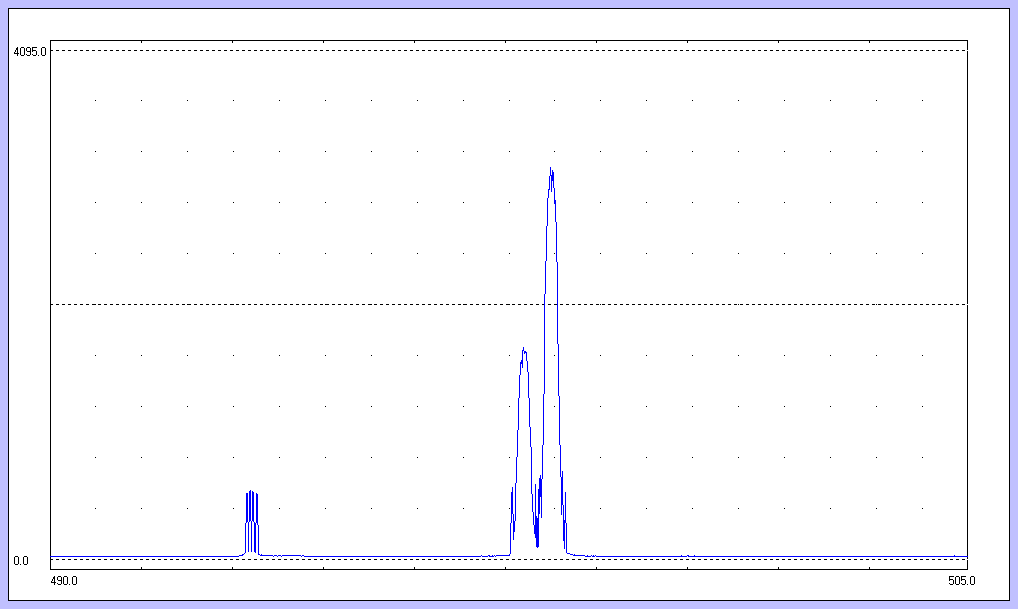




1699790571653

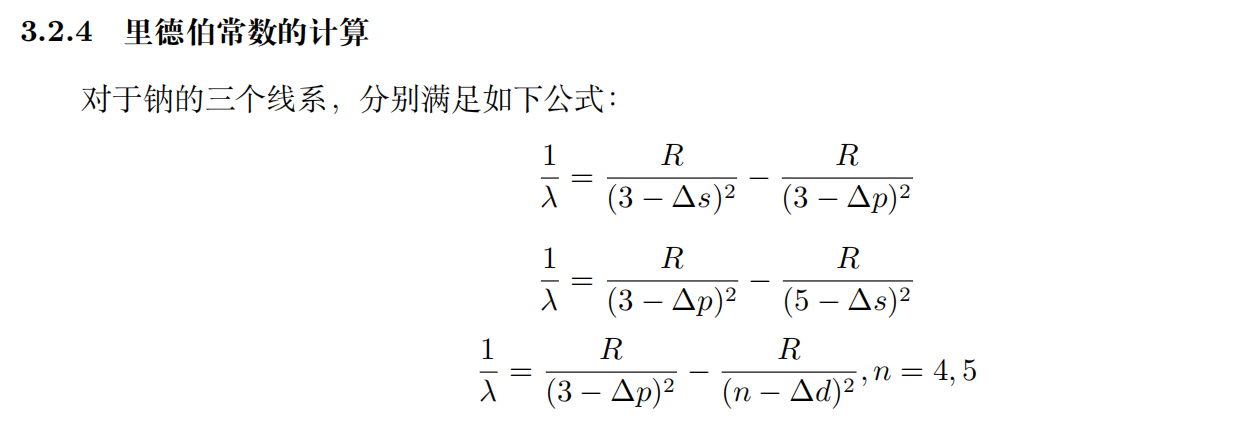
钠漫线系1的波长为568.3nm/568.86nm，实际测量中的两个峰在568.275nm/568.825nm。





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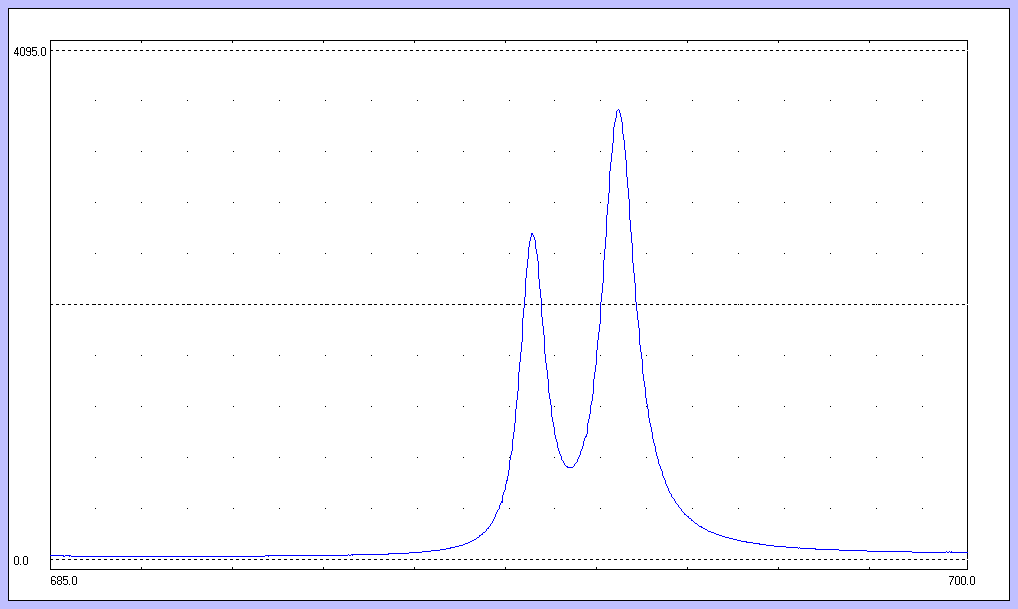
钠漫线系2的波长为497.78nm/498.2nm，实际测量中的两个峰在497.75nm/498.175nm。



分别代入计算，可得：

1. 主线系下，，
2. 锐线系下，，
3. 漫线系下，n=5时，，
4. 漫线系下，n=4时，，





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实际测量的两个峰值在693.025nm/694.288nm，前者近似对应能级2A4A2的自发跃迁辐射；后者近似对应E→4A2 能级的自发跃迁辐射。（考虑到光谱仪测量波长有偏差，这里的对应关系由估计得到）

