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| **六、数据处理**  **λ=589.3nm**   |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **环的级数** | ***m*** | **24** | **23** | **22** | **21** | **20** | **19** | **18** | **17** | **16** | **15** | | **环的位置** | **右侧（mm）** |  |  |  |  |  |  |  |  |  |  | | **左侧（mm）** |  |  |  |  |  |  |  |  |  |  | | **环的直径*Dm*** | **（mm）** |  |  |  |  |  |  |  |  |  |  | | ***Dm*2** | **（mm2）** |  |  |  |  |  |  |  |  |  |  | | **环的级数** | ***n*** | **14** | **13** | **12** | **11** | **10** | **9** | **8** | **7** | **6** | **5** | | **环的位置** | **右侧（mm）** |  |  |  |  |  |  |  |  |  |  | | **左侧（mm）** |  |  |  |  |  |  |  |  |  |  | | **环的直径*Dn*** | **（mm）** |  |  |  |  |  |  |  |  |  |  | | ***Dn*2** | **（mm2）** |  |  |  |  |  |  |  |  |  |  | | ***Dm*2-*Dn*2** | **（mm2）** |  |  |  |  |  |  |  |  |  |  | |  | **（m）** |  |  |  |  |  |  |  |  |  |  |   R==  Δ‾R==  误差分析计算：  R=‾R±Δ‾R= **(m)** |
| **七、结果陈述：**  **球面镜的曲率半径**R=‾R±Δ‾R=1.48807±0.10853 **(m)** |
| **八、实验总结与思考题**  **总结：**  **本次实验了解了等厚干涉的实验原理，对用干涉法测量微小量有初步了解**,**同时也了解了利用牛顿环测定球面镜的曲率半径的方法，并且熟悉了避免系统误差的实验方法---多项逐差法。**  **思考题：** |
| 指导教师批阅意见： |
| 成绩评定：     |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **预习**  （20分） | **操作及记录**  （40分） | 数据处理与结果陈述30分 | 思考题  10分 | **报告整体**  **印 象** | **总分** | |  |  |  |  |  |  | |