数据表格:

1. 牛顿环 $\Delta_{仪} = 0.004mm$, $\lambda = 589.3nm$

环的级数	m	20	19	18	17	16
环的位置/mm	$x_{左}$					
	$x_{右}$					
环的直径/mm	$d_m = \left\| x_{左} - x_{右} \right\|$					
环的级数	n	15	14	13	12	11
环的位置/mm	$x_{左}$					
	$x_{右}$					
环的直径/mm	$d_n = \left\| x_{左} - x_{右} \right\|$					
d_m^2 / mm^2						
d_n^2 / mm^2						
$\left(d_m^2 - d_n^2 \right)_i$						
$\overline{d_m^2 - d_n^2}$						
R	$R = \dfrac{\overline{d_m^2 - d_n^2}}{4(m-n)\lambda} = \dfrac{\overline{d_m^2 - d_n^2}}{4 \times 5 \times \lambda} = \qquad m$					
$S_{d_m^2 - d_n^2}$	$S_{d_m^2 - d_n^2} = \sqrt{\dfrac{\sum\limits_{i=1}^{6}\left[\overline{d_m^2 - d_n^2} - \left(d_m^2 - d_n^2 \right)_i \right]^2}{5-1}} = \qquad mm$					
$\Delta_{d_m^2 - d_n^2}$	$\Delta_{d_m^2 - d_n^2} = \sqrt{S_{d_m^2 - d_n^2}^2 + \left(2\Delta_{仪}^2 \right)^2} = \qquad mm^2$					
Δ_R	$\Delta_R = \dfrac{\Delta_{d_m^2 - d_n^2}}{4 \times 5 \times \lambda} = \qquad m$					
结果表达式	$R \pm \Delta_R = \qquad m$					