(黄)次数	θmin		θ0		Σ	Z ' 11	~ .
	I	Ш	1	Ш	δmin I	δmin II	δmin
1	119°30′	299°30′	65°45′	245°45′	53°45′	53°45′	53°45′
2	174°31′	354°35′	121°1′	301°2′	53°30′	53°33′	53°32′
3	351°2′	170°55′	297°20′	117°20′	53°42′	53°35′	53°39′
4	321°35′	140°34′	267°0′	87°0′	54°35′	53°34′	54°5′
5	291°45′	111°43′	238°10′	57°10′	53°35′	54°33′	54°4′
6	171°48′	351°50′	115°20′	295°22′	56°28′	56°28′	56°28′
(绿)次数	θmin		θ0		δmin I	δmin II	δmin
	- 1	Ш	1	ll l	OITIIIT I	OHIIIII	OITIIII
1	119°45′	299°47′	65°45′	245°45′	54°0′	54°2′	54°1′
2	175°0′	355°0′	121°1′	301°2′	53°59′	53°58′	53°59′
3	351°20′	171°18′	297°20′	117°20′	54°0′	53°58′	53°59′
4	322°2′	141°59′	267°0′	87°0′	55°2′	54°59′	55°1′
5	292°5′	112°6′	238°10′	57°10′	53°55′	54°56′	54°26′
6	172°12′	352°15′	115°20′	295°22′	56°52′	56°53′	56°53′
(蓝) 次数	θmin		θ0		δmin I	δmin II	δmin
	- 1	П	- 1	П	OHMIT I	CITIIITII	OH III
1	116°5′	296°8′	59°51′	239°49′	56°14′	56°19′	56°17′
2	359°0′	178°58′	302°35′	122°30′	56°25′	56°28′	56°27′
(紫) 次数	θmin		θ0		δmin I	δmin II	δmin
		ll l	1	ll l	OHIIII I	OITIIIT II	OHIIII
1	177°20′	297°22′	59°51′	239°49′	57°29′	57°33′	57°31′
2	0°15′	180°12′	302°35′	122°30′	57°40′	57°42′	57°41′

## 计算三棱镜对黄绿蓝紫色光的最小偏向角及不确定度

$$egin{align} \overline{\delta_{rac{\pi}{6}}} &= rac{\sum\limits_{i=1}^6 \delta_i}{6} = 54°35' \ \overline{\delta_{rac{\pi}{6}}} &= rac{\sum\limits_{i=1}^2 \delta_i}{2} = 56°22' \ \overline{\delta_{rac{\pi}{6}}} &= rac{\sum\limits_{i=1}^2 \delta_i}{2} = 57°36' \ \overline{\delta_{rac{\pi}{6}}} &= 54°43' \ \hline \end{array}$$

$$egin{aligned} u_{A \oplus } &= \sqrt{rac{\sum\limits_{i=1}^{6} (\delta_i - \overline{\delta_{i g}})^2}{6 imes 5}} = 0.5\,^{\circ} \ u_{B \oplus } &= rac{\Delta_{(\!\chi\!)}}{\sqrt{3}} = 0.01\,^{\circ} \ u_{c \oplus } &= \sqrt{u_{A \oplus }^2 + u_{B \oplus }^2} = 0.5\,^{\circ} = 30' \end{aligned}$$

$$\delta_{\$}=(54°43'\pm30')$$

## 计算三棱镜对四条色光的折射率

$$\angle A = 60^{\circ}$$

$$n_{ ilde{\sharp}} = rac{sinrac{\angle A + \delta_{ ilde{\sharp}}}{2}}{sinrac{\angle A}{2}} = 1.68$$
  $n_{ ilde{ ilde{\pm}}} = rac{sinrac{\angle A + \delta_{ ilde{\sharp}}}{2}}{sinrac{\angle A}{2}} = 1.70$   $n_{ ilde{ ilde{\pm}}} = rac{sinrac{\angle A + \delta_{ ilde{\sharp}}}{2}}{sinrac{\angle A}{2}} = 1.70$   $\overline{n_{ ilde{\$}}} = rac{sinrac{\angle A + \overline{\delta_{ ilde{\$}}}}{2}}{sinrac{\angle A}{2}} = 1.68$ 

## 计算绿光折射率的不确定度

$$u_{n lpha} = cos(rac{\delta_{rak{R}}}{2} + 30\degree) imes u_{\delta_{rak{R}}} = 0.27$$

$$n_{\$} = (1.68 \pm 0.27)$$

## 绘制色散曲线

使用柯西色散公式拟合:

$$n = a + rac{b}{\lambda^2} + rac{c}{\lambda^4} 
onumber \ n = 1.65 + rac{9981.57}{\lambda^2} + rac{1.0}{\lambda^4} 
onumber \ n = 1.65 + rac{9981.57}{\lambda^2} + rac{1.0}{\lambda^4} 
onumber \ n = 1.65 + rac{9981.57}{\lambda^2} + rac{1.0}{\lambda^4} 
onumber \ n = 1.65 + rac{9981.57}{\lambda^2} + rac{1.0}{\lambda^4} 
onumber \ n = 1.65 + rac{9981.57}{\lambda^2} + rac{1.0}{\lambda^4} 
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onumber \ n = 1.65 + rac{9981.57}{\lambda^2} + rac{1.0}{\lambda^4} 
onumber \ n = 1.65 + rac{9981.57}{\lambda^4} + rac{1.0}{\lambda^4} 
onumber \ n = 1.65 + rac{9981.57}{\lambda^4} + rac{1.0}{\lambda^4} 
onumber \ n = 1.65 + rac{9981.57}{\lambda^4} + rac{1.0}{\lambda^4} 
onumber \ n = 1.65 + rac{9981.57}{\lambda^4} + rac{1.0}{\lambda^4} 
onumber \ n = 1.65 + rac{9981.57}{\lambda^4} + rac{1.0}{\lambda^4} 
onumber \ n = 1.65 + rac{9981.57}{\lambda^4} + rac{1.0}{\lambda^4} 
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onumber \ n = 1.65 + rac{1.0}{\lambda^4} +$$

