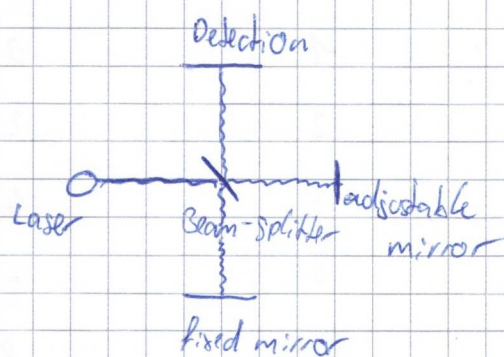


Calibration of screw

$$\lambda = 632,8 \text{ nm}$$

	Ring count	distance	start point <del>4,0</del> 7,0
1	20	<del>6,93</del> 6,93	
2	<del>21</del> 21	<del>6,86</del> 6,86	
3	<del>22</del> 22	<del>6,79</del> 6,79	
4	23	6,72	
5	24	6,65	
6	25	6,57	
7	26	6,49	
8	27	6,40	
9	28	6,32	
10	29	6,23	



Screw was used to change the distance, change in interference fringes was recorded together with supposed distance change

Measuring refraction index of air~~pressure~~

measurement	Ring count	pressure [mbar] $\pm 20$ mbar
1	5	- 160
2	4	- 300
3	4	- 420
4	2	- 500
5	2	- 570
6	2	- 620
7	1	- 660
8	2	- 720
9	1	- 750
10	1	- 780

instead of the mirror changing, a chamber was placed in one arm and the pressure was changed

chamber length:  
37,50(5) mm



# refraction parameter of glass

glass thickness:  $0.5355 \text{ cm}$

a glass pane was turned to change the thickness for the light.

measurements	angle $\pm 1^\circ$	Ring count
1	$0 \text{ to } 2^\circ$	4
2	$2 \text{ to } 4^\circ$	14
3	$4 \text{ to } 6^\circ$	21
4	$6 \text{ to } 8^\circ$	34
5	$8 \text{ to } 10^\circ$	30 $\times$
6	<del>10 to 12</del> $10^\circ \text{ to } 8^\circ$	32
7	<del>12 to 14</del> $8^\circ \text{ to } 6^\circ$	42
8	<del>14 to 16</del> $6^\circ \text{ to } 4^\circ$	31
9	<del>16 to 18</del> $4^\circ \text{ to } 2^\circ$	14
10	<del>18 to 20</del> $2^\circ \text{ to } 0^\circ$	7 <span style="margin-left: 20px;">2nd account ↓</span>
11	$-8^\circ \text{ to } -7^\circ$	10 / 17
12	$-7^\circ \text{ to } -6^\circ$	14 / 17
13	$-6^\circ \text{ to } -5^\circ$	17
14	$-5^\circ \text{ to } -4^\circ$	13
15	<del>16 to 18</del> $-4^\circ \text{ to } -3^\circ$	13
16	$-3^\circ \text{ to } -2^\circ$	15