

лист 2

Бер-13

№3 Дано:
 $\delta_{\text{АФ}} = 23^{\circ}12'30''$
 $\delta_{\text{П}} = 22^{\circ}49'$
 $\omega = 163 \cdot 10^{-6} \text{ рад/с}$

Найти разность ^{чисел} порядков ~~разности~~ ~~разности~~ ~~разности~~
 между Анофетом:
 $\delta = \delta_{\text{АФ}} - \delta_{\text{П}} = 23^{\circ}12'30'' - 22^{\circ}49' = 23,5' = 23,5 \cdot 60'' = 1410''$

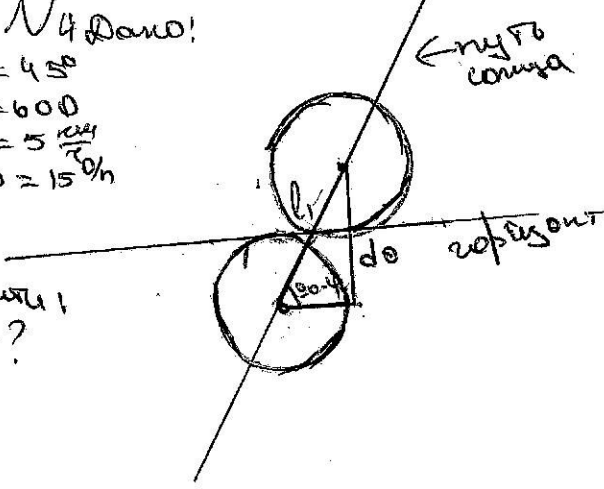
Найти t :
 $t = \frac{\delta}{\omega}$
 $t = \frac{1410''}{163 \cdot 10^{-6} \text{ рад/с}} = 8,6 \cdot 10^6 \text{ с}$

Так как Анофет находится в Австралии, а у нас в России, то свет движется к северному экватору,

и движется к Персею.

№4 Дано:
 $\varphi = 45^{\circ}$
 $n = 600$
 $\omega = 5 \frac{\text{рад}}{\text{с}}$
 $\omega_0 = 15 \frac{\text{рад}}{\text{с}}$

Найти l_m - ?



$d_0 = 0,5'$
 $\sin(90 - \varphi) = \frac{d_0}{l_1}$
 $l_1 = \frac{d_0}{\sin(90 - \varphi)}$
 $l_1 = \frac{0,5^{\circ}}{\sin(45^{\circ})}$
 $l_1 = \frac{0,5^{\circ}}{\frac{\sqrt{2}}{2}}$
 $l_1 = \frac{0,5^{\circ}}{\frac{\sqrt{2}}{2}}$
 $l_1 \approx 1,41$
 $l_1 = 0,709^{\circ}$

Угол ω_2 после центра равен: ~~15~~

$\omega_2 = \omega_0 \cdot \cos(d_0)$

$\cos(d_0) = 1$

$\omega_2 = \omega_0 \cdot 1$

$\omega_2 = 15 \frac{\text{рад}}{\text{с}}$

$t = \frac{l_1}{\omega_2}$

$t = \frac{0,209^{\circ}}{15 \frac{\text{рад}}{\text{с}}} = 0,047 \text{ с}$

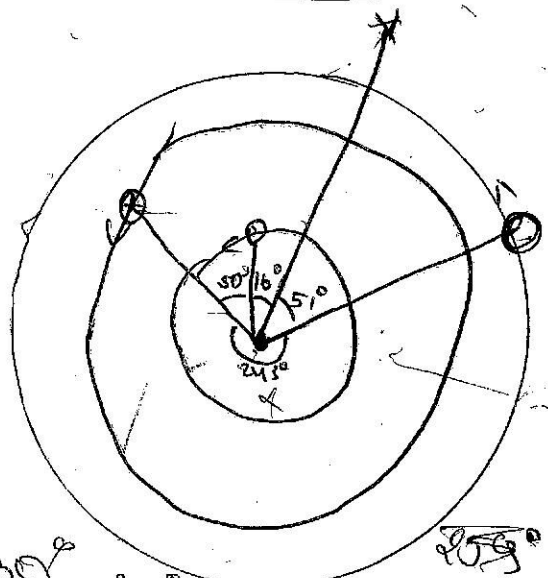
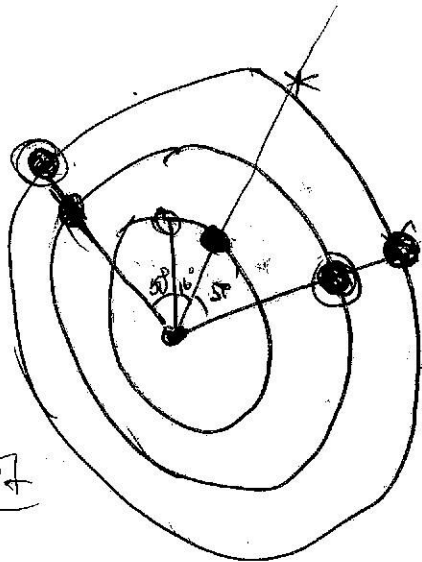
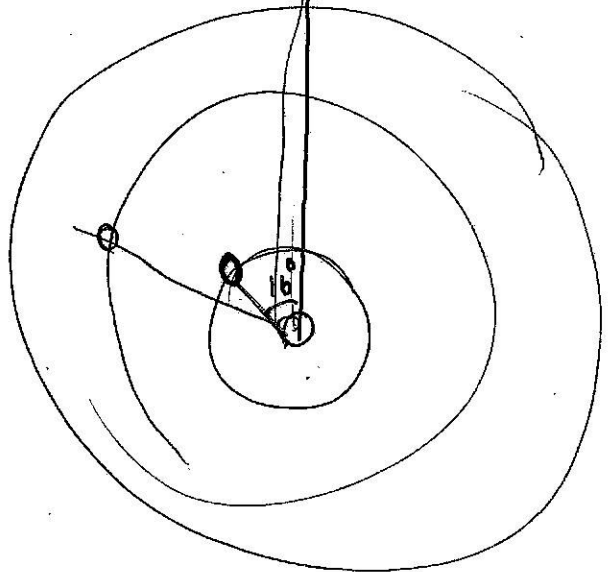
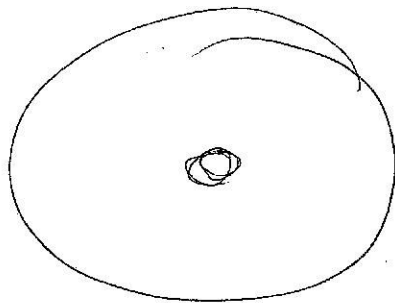
$S_{\text{ПФ}} = t \cdot a$

$S_{\text{ПФ}} = 0,047 \text{ с} \cdot 5 \frac{\text{рад}}{\text{с}} = 0,235 \text{ рад}$

$l_m = \frac{S_{\text{ПФ}}}{n} = \frac{0,235 \text{ рад}}{600} = 3,9 \cdot 10^{-4} \text{ рад} = 39 \mu\text{рад}$

Lehrbuch
Lust I

5.11.13
FK1000



$$\begin{array}{r} 2000 \\ 2500 \\ \hline 4500 \end{array} \quad \begin{array}{r} 22 \\ 4000 \\ \hline 4020 \end{array}$$

$$\begin{array}{r} 2000 \\ 3435 \\ \hline 5435 \end{array} \quad \begin{array}{r} 27 \\ 52 \\ \hline 79 \end{array}$$

$$\begin{array}{r} 228 \\ 488 \\ \hline 716 \end{array} \quad \begin{array}{r} 0,47 \\ 425 \\ \hline 472 \end{array}$$

$$\begin{array}{r} 2500 \\ 235 \\ \hline 2265 \end{array} \quad \begin{array}{r} 0,47 \\ 548,9 \\ \hline 595,9 \end{array}$$

$$\begin{array}{r} 420 \\ 376 \\ \hline 796 \end{array}$$

$$\begin{array}{r} 2355 \\ 942 \\ \hline 3297 \end{array}$$

$$\begin{array}{r} 2505 \\ 0,47 \\ \hline 2505,47 \end{array}$$

$$w_m = \frac{300^\circ}{360^\circ} = \frac{300}{360} = 0,8333$$

$$w_3 = \frac{360^\circ}{365,25} = 0,9856$$

$$w_{m3} = \frac{300}{587} = 0,511$$

$$\begin{array}{r} 243 \\ 0,99 - 0,52 \\ \hline 0,47 \end{array}$$

$$\begin{array}{r} 228 \\ 0,47 \\ \hline 228,47 \end{array}$$

$$243 + 15^\circ$$

$$\begin{array}{r} 2505 \\ 0,47 \\ \hline 2505,47 \end{array}$$

$$\begin{array}{r} 2000 \\ 4000 \\ \hline 6000 \end{array} \quad \begin{array}{r} 309^\circ \\ 4,09 \\ \hline 309,409 \end{array}$$

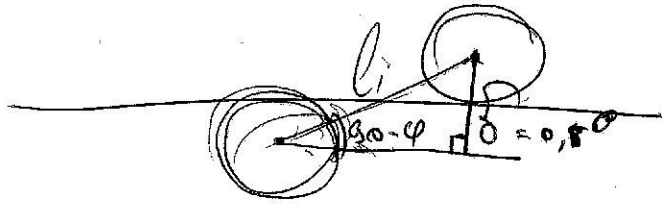
$$\begin{array}{r} 445,1 - 75,5 \\ \hline 369,6 \end{array}$$

515

Höfner'scher Versuch

Blatt-13
7 Klausur

600 mrad
 $\varphi = 45^\circ$
5 mm
15%



$$\sin \varphi = \frac{r}{l_1}$$

$$S_2 = t \cdot b \cdot l = 0,047 \cdot 52 \cdot l$$

$$= 0,235 \text{ km}^2$$

$$l_1 = \frac{r}{\sin(\varphi)}$$

$$\begin{array}{r} 0,23501 \quad 60\varphi \\ \underline{1200} \\ 550039 \\ \underline{5400} \\ 100 \end{array}$$

$$l = \frac{0,235 \text{ km}}{600} = 3,9 \cdot 10^{-4} \text{ m} = 0,5^\circ$$

$$\frac{0,391}{600 \text{ mrad}} \quad l_1 = \frac{1^\circ}{\sqrt{2}}$$

$$b = \frac{l}{\omega_0} = \frac{0,709^\circ}{15\%}$$

$$1,41 \approx 2$$

$$b = 0,047 \text{ m}$$

$$\varphi = 0,709^\circ$$

$$\begin{array}{r} 1000 \\ \underline{937} \quad 14 \\ 239 \quad 14 \\ \underline{670} \end{array}$$

$$\begin{array}{r} 0,709^\circ \\ \underline{60} \\ 10,9 \\ \underline{105} \\ 4 \quad 0,047 \end{array}$$

$$b = \frac{l_1}{\omega_0}$$

$$\omega_0 = \omega_0 \cdot \cos(\varphi)$$

$$\cos(\varphi) \approx 1$$

$$\omega_0 = \omega_0 \cdot 1$$

$$\omega_0 = 15\%$$

$$f + 3) + 30 + 3 | 31 + \frac{26}{29} R 3,09$$

- 26 Antworten

- 11 Klausur

20 140

$$179$$

$$\begin{array}{r} 179 \quad 295 \\ \underline{-177} \quad 16,0 \\ 20 \end{array}$$

$$29,5$$

$$180 - 3$$

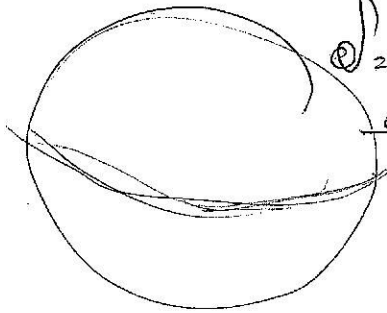
$$177$$

$$\frac{179}{177}$$

Handwritten text, possibly a name or title, written in cursive.

Blind - 13

$$\begin{array}{r}
 29^{\circ} 12' 30'' \\
 - 28^{\circ} 49' 00'' \\
 \hline
 0^{\circ} 23' 30''
 \end{array}$$



$$\begin{array}{l}
 22.49'' \\
 22.49'' / 2 = 11.245'' \\
 2.163 \cdot 10^{-6}''
 \end{array}$$

$$23, 51, 60 = 0^{\circ} 22' 30''$$

$$\begin{array}{r}
 23, 51, 60 = 1410'' \\
 \underline{60} \\
 1470
 \end{array}$$

$$\frac{1410''}{163 \cdot 10^{-6}} = 8.6 \cdot 10^6$$

$$\begin{array}{r}
 1410 \quad | \quad 163 \\
 \underline{7304} \quad | \quad 88 \\
 1060 \quad | \\
 \underline{928} \\
 82
 \end{array}$$

