

$$\begin{aligned} \Delta \vec{p} &= \int_{\vartheta}^{180} \frac{9192}{v^5} \sin(\varphi - \vartheta/2) d\varphi \\ &= \frac{-9192}{v^5} [\cos(\varphi - \vartheta/2)]_{\vartheta}^{180} \\ &= \frac{-9192}{v^5} [\cos(180 - \vartheta/2) - \cos(\vartheta - \vartheta/2)] = \\ &= \frac{-9192}{5v} [-\cos \vartheta/2 - \sin \vartheta/2] = \\ &= \frac{29192}{5v} \cos \vartheta/2 \end{aligned}$$

$$\Delta \vec{p} = \frac{29192}{5v} \cos \vartheta/2 \quad (2)$$

Podľa (1)

$$|\Delta \vec{p}| = 2p \sin \vartheta/2$$

Podľa (2)

$$|\Delta \vec{p}| = \frac{29192}{5v} \cos \vartheta/2$$

Porovnáme (1) a (2)

$$\operatorname{tg} \vartheta/2 = \frac{2p}{\frac{29192}{5v}} = 1$$

Dosadíme za $p = mv$

$$\operatorname{tg} \vartheta/2 = \frac{9192}{mv \cdot 5v}$$

$$\leftarrow \dot{r} = \frac{1}{2} \omega r^2$$

$$\boxed{\operatorname{tg} \vartheta/2 = \frac{9192}{2T \cdot 5}}$$

(3)

Nemožno porovnať s experimentom, lebo ne-
poznáme b .