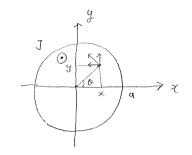
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(1)
$$Y \ge a o x^{\frac{1}{2}} H_a \cdot 2\pi Y = \pi a^2 J$$

$$H_a = \frac{a^2 J}{2r} ,$$

$$0 \le r < an \times 2\pi r = \pi r^2 J$$

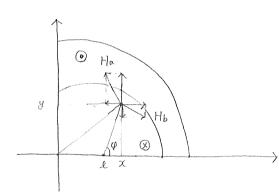
$$Ha = \frac{rJ}{2}$$

道作用
$$\sharp$$
 ') $H_a = \frac{\sqrt{x^2 + y^2}J}{2}$

: $H_{ax} = \frac{\sqrt{x^2 + y^2}J}{2} \cdot -\sin\theta = \frac{\sqrt{x^2 + y^2}J}{2} \cdot \frac{y}{\sqrt{x^2 + y^2}} = -\frac{yJ}{2}$
 $H_{ay} = \frac{\sqrt{x^2 + y^2}J}{2} \cdot \cos\theta = \frac{\sqrt{x^2 + y^2}J}{2} \cdot \frac{x}{\sqrt{x^2 + y^2}} = \frac{\cot J}{2}$

"

(2)



$$H_{ax} = -\frac{yJ}{2}$$
, $H_{ay} = \frac{xJ}{2}$

$$H_{bx} = H_{b} \cdot - \sin \theta = \frac{\sqrt{(x-\ell)^2 + y^2} J}{2} \cdot - \frac{y}{\sqrt{(x-\ell)^2 + y^2}} = \frac{yJ}{2}$$

$$H_{by} = H_{b} \cdot \cos \theta = \frac{\sqrt{(x-\ell)^2 + y^2} J}{2} \cdot \frac{x-\ell}{\sqrt{(x-\ell)^2 + y^2}} = -\frac{x-\ell}{2} J$$

空間的に生方向に全」の一様な磁界となっている。