Ch.mo Sig.r Prof.,

~~Il D.r [illegible] Landau, che mi segue~~

Le trasmetto, qui acclusa, due lettere del D.r Landau, che ~~[illegible]~~ accennano a risultati nei segni ~~[illegible]~~ raggiunti; e nella ~~sua~~ Memoria di lui presentata all'Ecc., dalla [illegible], ~~nelle memorie nelle sue note sulle distanze dei [illegible]~~, e nella sua nota sulle [illegible] di una [illegible]. — Per ciò che segue ~~[illegible]~~ ~~nota~~ questa nota, ~~mi so~~ ho cercato invano di rilevare in quel [illegible] in la sua [illegible] stato condotto a ciò, nella sua pag., le parole "d'ora in poi [illegible]"; e temo che ~~in tutti~~ il ragionamento qualsiasi sostenuto, che senza dubbio ha dovuto ~~fare~~ basarsi altrimenti [illegible] di far tale affermazione, non sia né possa essere rigoroso. ~~Ad ogni mo~~ Si tratta di tale ~~[illegible]~~, ad ogni modo, d'un errore ~~latente~~ e non d'una dimostrazione esplicitamente ~~errata~~, come già a ~~torto~~ afferma il ~~D.r~~ Landau nella ~~prima~~ ~~sua~~ lettera, giacché io mi [illegible] dell'idea capitale del Landau solo dopo avere stabilito, io credo di studiarla, la correzione dell'esempio V. — Ad ogni modo io mi ~~trovo ora~~ trovo troppo allontanato (per presto) da questo genere di studii, e non mi sento in grado di ~~esaminare a fondo le questioni~~ ~~mettere a riflettere~~, ~~appr~~ superficialmente, ~~sulle questioni [illegible]~~ riesaminare ~~[illegible]~~ ad ora, sia pure superficialmente, ~~le~~ questioni che in altri tempi mi attraevano tanto! — Sono invece sicuro che Ella ~~[illegible]~~ troverà ~~[illegible]~~ ~~nelle lettere~~ argomento di suoi studii nelle lettere che le accludo ~~del D.r Landau~~; ed è per questo che ho ~~[illegible]~~ richiesto dall'~~Ecc.~~ D.r Landau il permesso di ~~trasmetterle~~ comunicarle a Lei. — Gradisca, ch.mo Sig.r Prof., l'omaggio dei sensi della mia distinta stima

$\rho = b + ks \pm k'\sqrt{a^2 - s^2}$ $\qquad$ $b,\ k.$

$(\rho - \rho_0)^2 \pm \sqrt{as^2 + 2bs + c}$

$as^2 + bs + c + 2fs + 2g\rho + 2h\rho s = 0$

$\rho = b + ks \pm k'\sqrt{a^2 - s^2}$

$\rho_1 = k\rho \mp k' \dfrac{s\rho}{\sqrt{a^2 - s^2}}$ $\qquad$ $\dfrac{1}{\sqrt{\ }} + \dfrac{s^2}{(\sqrt{\ })^3}$

$\rho_2 = k\rho_1 \mp k' \dfrac{s\rho_1}{\sqrt{a^2-s^2}} \mp k'\rho^2 \dfrac{a^2}{\left(\sqrt{a^2-s^2}\right)^3}$ $\qquad$ $k\ k'\ a$

$J = \int_0^\infty \dfrac{\operatorname{sen}\varphi\, d\varphi}{\left(e^{k\varphi} + e^{-k\varphi}\right)^2}$

$\dfrac{1}{z + \frac{1}{z}} = \dfrac{1}{z} - \dfrac{1}{z^3} + \dfrac{1}{z^5} - \cdots$

$\dfrac{1}{1+x} = 1 - x + x^2 - x^3 + \cdots$

$\dfrac{1}{(1+x)^2} = 1 - 2x + 3x^2 - \cdots$

$\dfrac{1}{\left(z + \frac{1}{z}\right)^2} = \dfrac{1}{z^2}\left(1 - \dfrac{2}{z^2} + \dfrac{3}{z^4} - \cdots\right) = \dfrac{1}{z^2} - \dfrac{2}{z^4} + \dfrac{3}{z^6} - \cdots$

$U = \int_0 (\ \ ) \cos\varphi\, d\varphi$

$V = \int_0^\infty \left(e^{-2k\varphi} - 2e^{-4k\varphi} + 3e^{-6k\varphi} - \cdots\right) \operatorname{sen}\varphi\, d\varphi$

$\int_0^\infty e^{-m\varphi} \operatorname{sen}\varphi\, d\varphi = \dfrac{1}{1+m^2}$

$\int_0^\infty e^{-m\varphi} \cos\varphi\, d\varphi = \dfrac{m}{1+m^2}$

$$s = \int \frac{2a^2r^2\,dr}{\sqrt{\left[(a^2+b^2)^2-r^4\right]\left[r^4-(a^2-b^2)^2\right]}}$$

$$\rho' = \frac{2a^2r^3}{3r^4-a^4+b^4}$$

$$\cancel{\rho} = \frac{\cancel{2ar\,r'}}{\quad}$$

$$2a^2r^2r' = \sqrt{\quad}$$

$\cancel{2a}$

$$4a^4r^4r'^2 = (a^2+b^2)^2r^4+(a^2-b^2)^2r^4-r^8-(a^4-b^4)^2$$

$$4a^4r^4r'^2 = 2(a^4+b^4)r^4-r^8-(a^4-b^4)^2$$

$$\cancel{3}r^4+r^4-b^4=$$

$$\frac{\rho_1}{\rho} = \frac{(3r^4-a^4+b^4)\cdot 3-r^3\cdot 12r}{(3r^4-a^4+b^4)^2}\sqrt{\quad}$$

$$-\frac{\rho_1}{\rho} = 3\,\frac{r^4+a^4-b^4}{(3r^4-a^4+b^4)^2}\sqrt{\quad}$$

$$\frac{1r\rho}{3r\rho-2a^2} = \frac{\cancel{3}r^4}{\cancel{r^4}+(a^4-b^4)}$$

$$r^4 = \frac{(a^4-b^4)r\rho}{3r\rho-2a^2}$$

$$\frac{2a^2r^2r'}{\sqrt{a^4-b^4}} = \sqrt{\left[(a^2+b^2)-\frac{(a^2-b^2)r\rho}{3r\rho-2a^2}\right]\left[\frac{(a^2+b^2)r\rho}{3r\rho-2a^2}-(a^2-b^2)\right]}$$

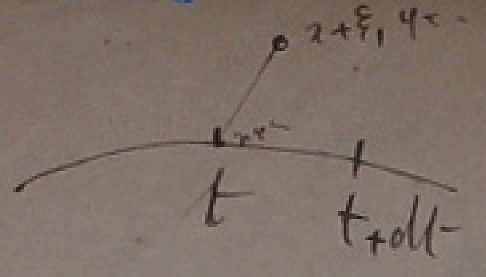
$$\frac{a^2r^2r'}{\sqrt{a^4-b^4}} = \frac{\sqrt{\quad}}{3r\rho-2a^2}$$

$3(a^2+b^2)r\rho-2a^2(a^2+b^2)$ $\quad$ $(a^2+b^2)r\rho-3(a^2-b^2)r\rho+2a^2(a^2-b^2)$
$-(a^2-b^2)r\rho$

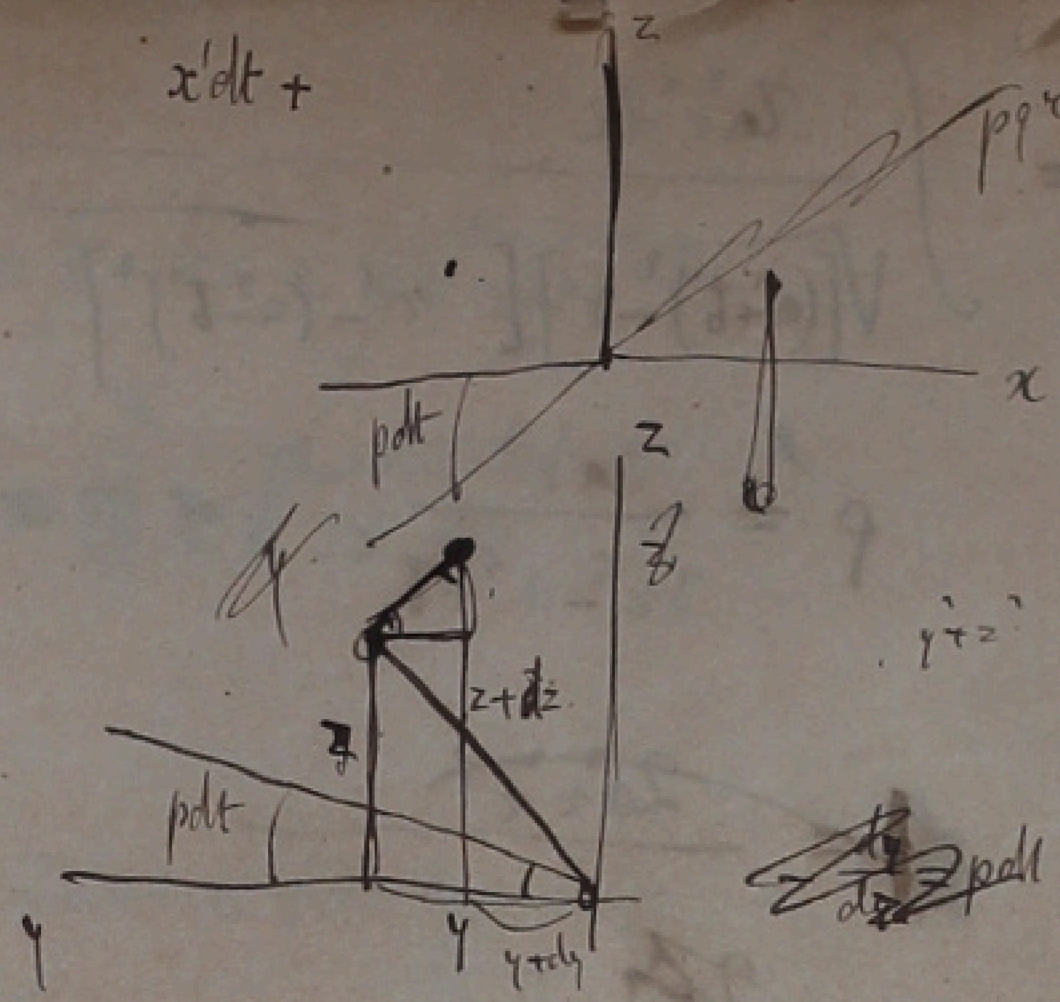
$\cancel{2}(a^2+2b^2)r\rho-\cancel{2}a^2(a^2+b^2)$ $\quad$ $\cancel{2}a^2(a^2-b^2)-(a^2-2b^2)r\rho$

$$2a^2\left[\cancel{(a^2-b^2)(a^2+2b^2)+(a^2+b^2)(a^2-2b^2)}\right]r\rho-a^4(a^4-b^4)-(a^4-4b^4)r^2\rho^2$$

a^4-2b^4

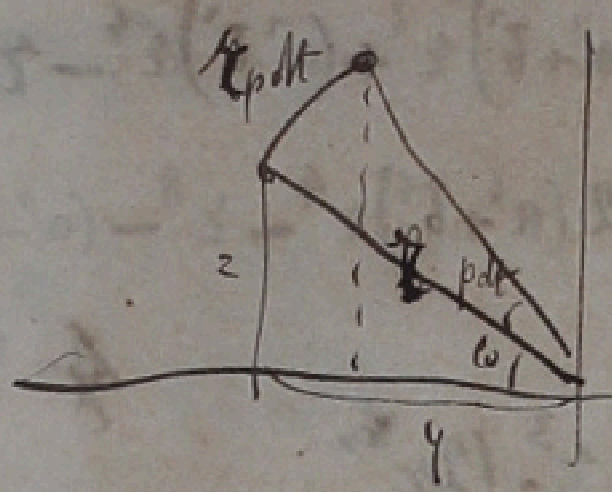


$x'dt +$



y^2+z^2

$y\,dy + z\,dz = 0$



$z = r\cos\theta$

$d\omega = p\,dt$

$y = R\cos\omega \qquad dy = -r\sin\omega\, d\omega$

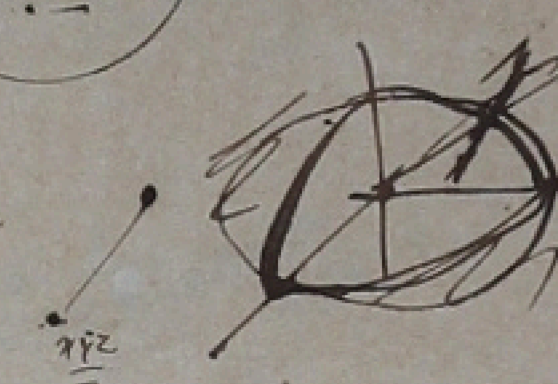
$z = R\sin\omega \qquad dz = r\cos\omega\, d\omega$

$dx = 0$	$dy = 0$	$dz = 0$
$dy = -z\,d\omega$	$dz = -x\,d\omega$	$dx = -y\,d\omega$
$dz = y\,d\omega$	$dx = z\,d\omega$	$dy = x\,d\omega$

		p	q	r
	x	0	qz	$-ry$
$3'$	y	$-pz$	0	rx
	z	py	$-qx$	0

$\frac{1}{2}\frac{\partial \mathcal{E}}{\partial \xi},\ \frac{1}{2}\frac{\partial \mathcal{E}}{\partial \eta},\ \frac{1}{2}\frac{\partial \mathcal{E}}{\partial \zeta}$

$\theta = \frac{\mathcal{E}}{\rho^2}$



$\frac{x\xi z}{2}$

$$d(x+\xi) = (x' + q\zeta - r\eta)\,dt + \ldots$$

$$d(y+\eta) = (y' + r\xi - q\zeta)\,dt + \ldots$$

$$d(z+\zeta) = (z' + p\eta - q\xi)\,dt + \ldots$$

$dx = x'dt$

$x+\xi \qquad x' + \frac{\partial x'}{\partial x}\xi + \frac{\partial x'}{\partial y}\eta + \frac{\partial x'}{\partial z}\zeta$

$d(x+\xi) = x'dt +$

$d(x+\xi) = \left(x' + \frac{\partial x'}{\partial x}\xi + \frac{\partial x'}{\partial y}\eta + \frac{\partial x'}{\partial z}\zeta\right)dt$

$$d(x+\xi) - (x' + qz - ry)\,dt = \left(\frac{\partial x'}{\partial x}\xi + \frac{\partial x'}{\partial y}\eta + \frac{\partial x'}{\partial z}\zeta\right)dt - (q\zeta - r\eta)\,dt$$

$$\frac{\partial x'}{\partial x}\xi + \frac{\eta}{2}\left\{\cancel{\frac{\partial x'}{\partial y}} + \frac{1}{2}\left(\frac{\partial y'}{\partial x} + \frac{\partial x'}{\partial y}\right)\right\} + \frac{\zeta}{2}\left\{\cancel{\frac{\partial x'}{\partial z}} + \frac{1}{2}\left(\frac{\partial x'}{\partial z} + \frac{\partial z'}{\partial x}\right)\right\}$$

$$\mathcal{E}(\xi, \eta, \zeta) = \frac{\partial x'}{\partial x}\xi^2 + \ldots$$

$$\frac{1}{2}\frac{\partial \mathcal{E}}{\partial \xi} = \frac{\partial x'}{\partial x}\xi + \frac{1}{2}(\ldots)\eta + \frac{1}{2}(\ldots)$$