Relace neucestorsi

P, x = nemière sompleylne soméone mérix

$$V_{p}(x) = \frac{1}{\sqrt{nr_{4}}} e^{\frac{x^{2}}{4}} p^{2}$$

$$\rightarrow$$

Jak preme molin souraone merét die veliciery

Smirodatna odchylka

Velicina A -> operala A

Stidu " hada hiha "ochhylka

$$(\Delta A)^{2} = \langle (A - \langle A \rangle)^{2} \rangle$$

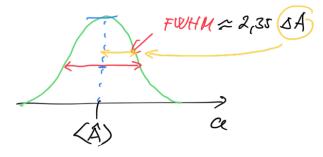
$$= \langle A^{2} - 2\langle A \rangle A + \langle A \rangle^{2} \rangle$$

$$= \langle A^{2} \rangle - \langle A \rangle^{2}$$

Frnérodatna odchytka $\Delta A = \sqrt{(AA)^2}$

Význam:

rosdelem nýsledlim minen leslem sholm sholm



Odvorení relace nemétoste

2 velicing A, B

 \rightarrow pridpheladame $\langle \mathcal{W} \hat{A} | \mathcal{V} \rangle = \langle \mathcal{V} | \hat{B} | \mathcal{V} \rangle = 0$ (le vidy somicis $\hat{A} = \hat{A} - \langle \hat{A} \rangle$)

shidui levadratiche odchylly

(SA) = < 4(A) +> = < 4(14) i 14> = A/4) (DB) = < 4(B) +> = < 4(14) i 14> = B/4)

Hilbertier partn => Cauchylio -Schwart ora neromord

\(\frac{4}{a}\forall \leq \lambda_1 \tag{14} \leq

$$2 = x + iy = 1$$

$$|2|^{2} = x^{2} + y^{2} = y^{2}$$
mixime frat
$$y = \frac{2 - 2^{x}}{2i}$$

$$|2|^{2} = \left(\frac{2 - 2^{x}}{2i}\right)^{2} = |(x_{2}/x_{2})|^{2} + |(x_{2}/x_{2})|^{2} + |(x_{2}/x_{2})|^{2}$$

$$|2|^{2} = x^{2} + y^{2} = y^{2}$$

$$|2|^{2} = x^{2} + y^{2} = y^{2} = y^{2}$$

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$$|2|^{2} = x^{2} + y^{2} = y^{2} = y^{2} = y^{2}$$

$$|2|^{2} = x^{2} + y^{2} = y^{2$$

Obé meromosh: =)

$$\left(\Delta A\right)^{2} \left(\Delta B\right)^{2} \geq \left(\frac{1}{2i} \left\langle \left[A, B\right] \right\rangle \right)^{2}$$

Oriflad.

$$\begin{array}{ccc}
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