## Operator v Huradincon representaci

$$|q\rangle \rightarrow \delta(+-q)$$

$$|p\rangle \rightarrow \sqrt{\frac{1}{\nu_{x}\tau_{h}}} e^{\frac{1}{\tau_{h}}} PX$$

$$\langle p'|p\rangle = \int_{-\alpha}^{\alpha} d + \frac{1}{2\pi\tau_{h}} e^{\frac{1}{\tau_{h}}} (p' + -p' + p') = \delta(p - p')$$

$$\langle q'|q\rangle = \int_{-\alpha}^{\alpha} d + \delta(+-q') \delta(+-q') = \delta(q-q')$$

$$\langle q|p\rangle = \int_{-\alpha}^{\alpha} d + \delta(+-q') \frac{e^{\frac{1}{\tau_{h}}}}{\nu_{x}\tau_{h}} = \sqrt{\frac{1}{\nu_{x}\tau_{h}}} e^{\frac{1}{\tau_{h}}} e^{\frac{1}{\tau_{h}}}$$

Vapomenine, co anamera (9/4)?

(9/4) fe projikce 14) de sméru 19>

Relace uphrosti Z 19×91 = 1

14) = = [9m>(9m/4) = E Cm 19m>

rowojore

leoeficiety (4) do

lare veltoni (9m)

Sdq 19><91 = 11

$$f(+) = \int dq \, \delta(+-q) \int d+' \delta(+'-q) f(+')$$

$$= \int dq \, \delta(+-q) \, f(q) = f(+)$$

1p>= Sdq (9><91p>= Sdq (1200) Vluora fembre = rorvojore hoefi-ceing de base vlastmel stam Obecne pro star 12> 14) = Jdg 195(914) Oberne or da hardyn koeficienhin rozvoje relat a vluora fembre ". V(+) je stavouj reletor, neto obuva fembel, v souradui core representaci Representace operatorie 9 = Sdq 9/9> <9/ 9/4) = Sdq 9/9>(9/4) = Sdq 94(9)/9>

Jahre j'u roevojou hoeficient (jæka je olusa fembre) - who veleton (x19/4) = (+1/dqq 4(q)/q) = /dqq4(q)(4/q) (x19 fd+1+1>(+14) = fd+ (+19 l+1) V(+)

= Amount To release

matice neboli operator <+(9)<9(+) = [dq 9 8(4-9) 8(+-9)  $= \chi d(4-4)$ 9 4(+) = x 4(+) Represente operatou lybrosh

Chaeme najil (+1 p/+) a obe me (+1 p/4)

(+1p/14) = (+1 p) sdq.19>(914) = = <+1 sdq p sdp/px(p/q) H(q) = Sagsapp <+1p><p19> Y(9)  $= \frac{\pi}{i} \frac{\partial}{\partial x} \int dq \int dp \frac{2\pi t}{2\pi t} \mathcal{V}(q)$   $\frac{\partial}{\partial (t-q)}$ 

$$\hat{p} = -i\hbar \frac{\partial}{\partial x}$$

- o qualog p a g menohen lit sou carne diagonalen n ofejne basi – mesdeleje vlastre reletog
- o Takoré operatory optu nemotin homutoral  $\widehat{q}\widehat{p} \neq \widehat{p}\widehat{q}$

Takoné peliciny mele v kh someane omyphylise
merit

per

(+x)

skejne pravdefodolust

Nolohax hyhunt

(+-q)

(+-q)

Torichy hyhuni

Jalen 6 ma hybrot?

Opratoy ruemy'd fynthalm'd relicin opslu dkune nemuseje homusoms.

Velicing fejiche operator nehometrije ne medaje!
Arnebone smyslæglne mirit.