

Konstrukcja diagramów pasmowych







Gestość prądu: $J(\vec{r}, t) = J(\vec{r}) = \frac{\hbar q}{2 i m} (\Psi^* \nabla \Psi - \Psi \nabla \Psi^*)$ W przypadku fali de Broigla: $\Psi(x, t) = [A_+ e^{ikx} + A_- e^{-ikx}] e^{-i\omega t}$ $J(\vec{r}) = \frac{\hbar q k}{m} (|A_+|^2 - |A_-|^2) \quad \text{czyli każda fala niesie z sobą prąd}$ W przypadku fali zanikającej: $\Psi(x, t) = [B_+ e^{\kappa x} + B_- e^{\kappa x}] e^{-i\omega t}$ $J(\vec{r}) = \frac{\hbar q \kappa}{i m} (B_+ B_-^* - B_+^* B_-) = \frac{2 \hbar q \kappa}{m} \text{Im} (B_+ B_-^*)$ Tylko złożenie amplitud + i – daje rzeczywisty prąd! Fala klasyczna: $\Psi(x, t) = Re\{[A_+ e^{ikx} + A_- e^{-ikx}] e^{-i\omega t}\}$

















































Hwang Woo-Suk

RETRACTION

2013-02-27

Post date 12 January 2006

The final report from the Investigation Committee of Secol National University (SNU 01) has concluded that the authors of two papers published in Science (2, 3) have engaged in research microaduct and that the papers contain labricated data. With regard to Hwang *et al.*, 2004 (2), the Investigation Committee reported that the data showing that DNA from human embyonic sem edit line NT-1 is a lotentiat to that of the door are intrail because they are the result of fabrication, as is the evidence that NT-1 is a bons files stem cell line. Further, the committee found that the claim In Hwang *et al.*, 2005 (3) that 11 putteent-specific memory in stem cells the evidence that NT-1 is a bons files stem cell line. Further, the committee found that the claim In Hwang *et al.*, 2005 (3) that 11 putteent-specific memory lines or any scientific basis for claiming to have created one." Because the final report of the SNU investigation indicated that a significant amount of the data presented in both papers is fabricated, the editors of Science feel that an immediate and unconditional retraction of both papers is needed. We therefore retract these two papers and advise the scientific community that the results protein in them are deemed to be imaid.

As we post this retraction, seven of the 15 authors of Hwang et al., 2004 (2) have agreed to retract their paper. All of the authors of Hwang et al., 2005 (3) have agreed to retract their paper.

Science regrets the time that the peer reviewers and others spent evaluating these papers as well as the time and resources that the scientific community may have spent trying to reolicate these results.

Donald Kennedy Editor-In-Orial

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elimination of remaining animal components. Before clinical use of these cells can occur, preclinical evidence is required to prove that transplantation of differentiated NT-hESCs can be safe, effective, and tolerated.

3-02-27































QPC as the reflector gate. Electrons passing from the QPC travel along both legs of the interferometer at once (paths shown in red, with arrows), and interfere when they return to their starting point.

R.M. Westervelt, M. A. Topinka et al. Physica E 24 (2004) 63-69





ther distances.

flector mirror. An ensemble average over the thermal istribution of electron energies tends to wash out fringes are observed in the left panel when the reflector mirror is off $(V_{refl}=0 V)$, while strong fringes are observed in the right panel when the reflector mirror is on ($V_{\text{refl}} = -0.8 \text{ V}$).

R.M. Westervelt, M. A. Topinka et al. Physica E 24 (2004) 63-69











Blokada Kulombowska			
Kropka zachowuje się jak mały kondensator o energii $E_c \sim \frac{1}{2} \frac{e^2}{c}$			
$V_b = 0$	$V_b = V_1$	_	$V_b = V_3$
	$G = \frac{dI}{dV} \begin{bmatrix} V_2 \\ V_1 \\ V_1 \end{bmatrix}$	V ₃	
2013-02-27			55

































Coherent Manipulation of Coupled Electron Spins in Semiconductor Quantum Dots J. R. Petta, et al. *Science 30 September 2005: 2180-2184*.







