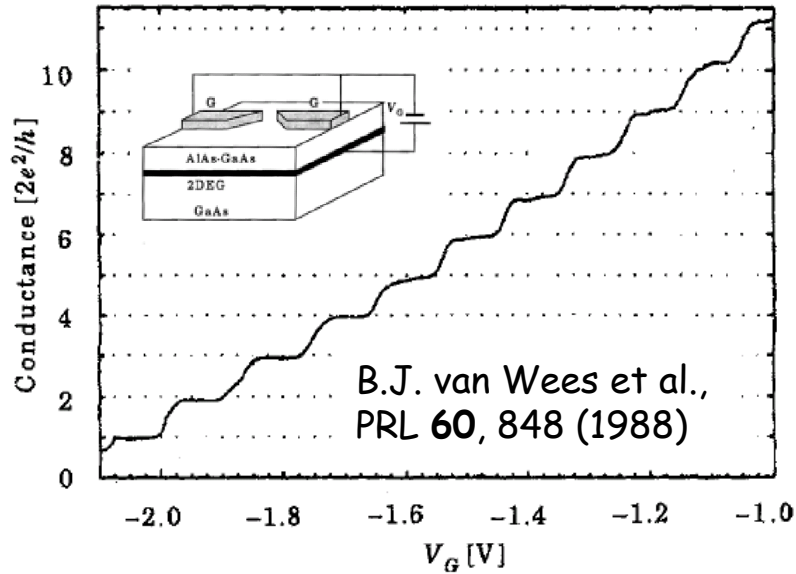
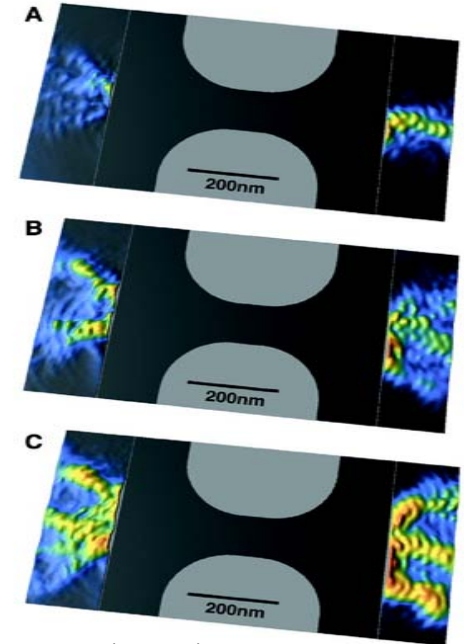
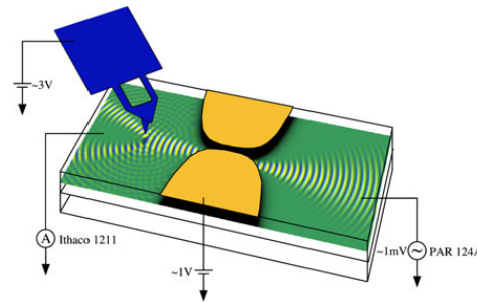


Vezetőképesség kvantálás kísérletekben

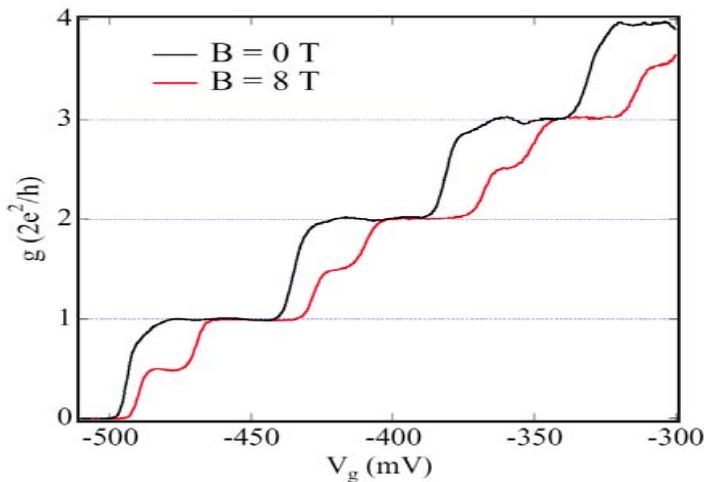
Első kísérlet:



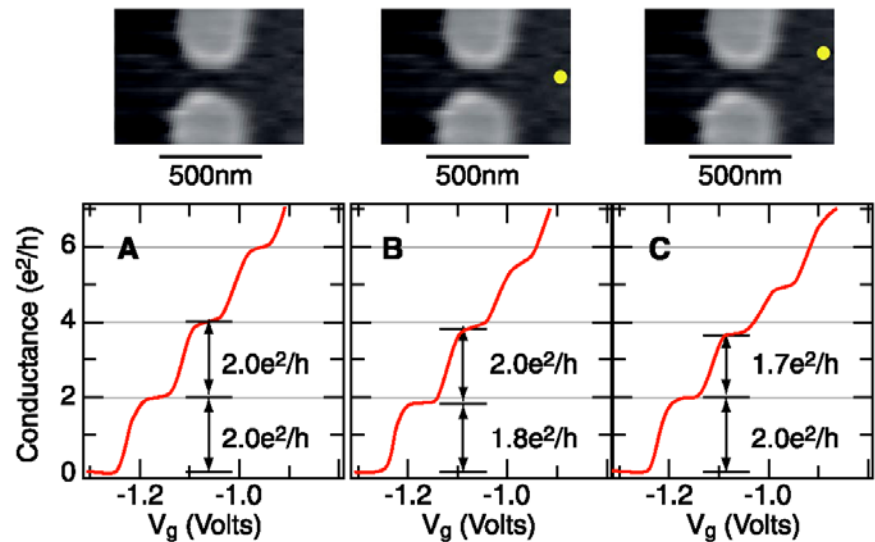
Módusok kimérése AFM tüvel:



Mágneses tér függés:
felhasad a spin degeneráció

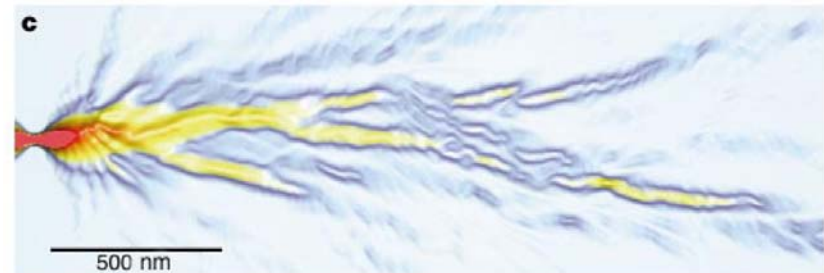
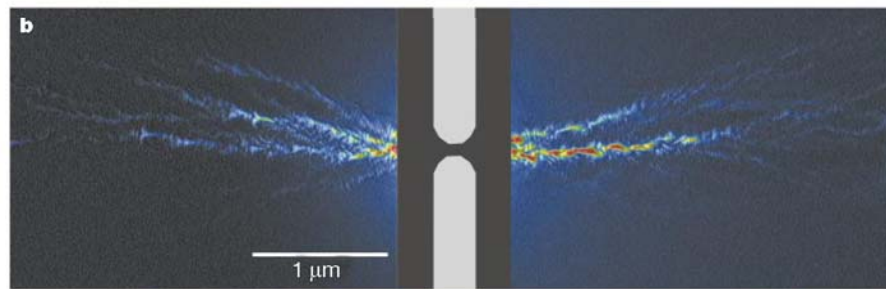
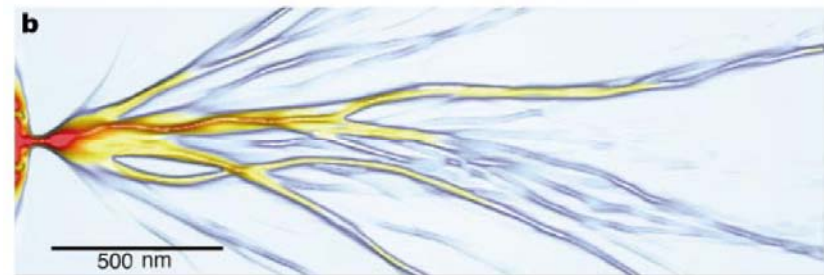
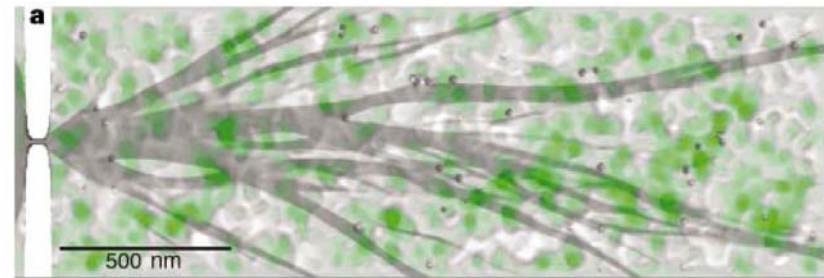
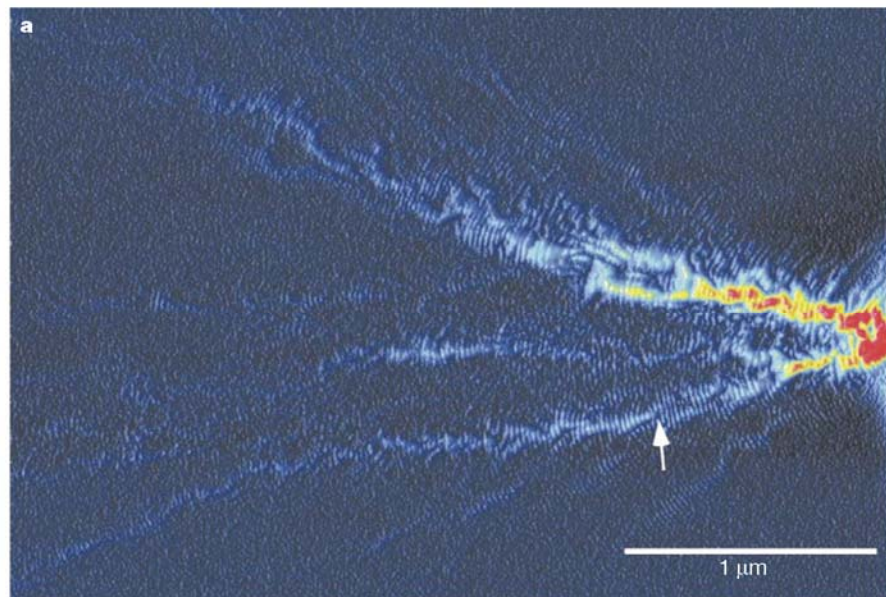


M. A. Topinka et al., Science, 289, 2323 (2000).



Coherent branched flow in a two-dimensional electron gas

M. A. Topinka^{*}, B. J. LeRoy[†], R. M. Westervelt^{*†}, S. E. J. Shaw[†],
R. Fleischmann[‡], E. J. Heller^{†§}, K. D. Maranowski^{||} & A. C. Gossard^{||}



ΔG : $0.00e^2/h$  $-0.25e^2/h$

Spatially probed electron-electron scattering in a two-dimensional electron gas

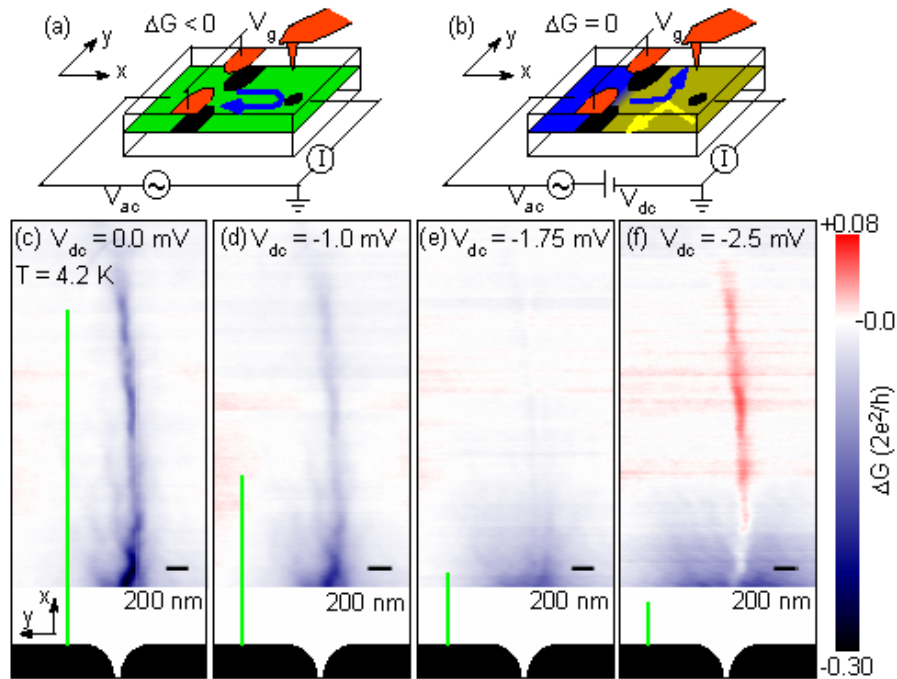
M. P. Jura^{*,1} M. Grobis^{†,2} M. A. Topinka^{‡,2,3} L. N. Pfeiffer^{§,4} K. W. West^{§,4} and D. Goldhaber-Gordon^{||2}

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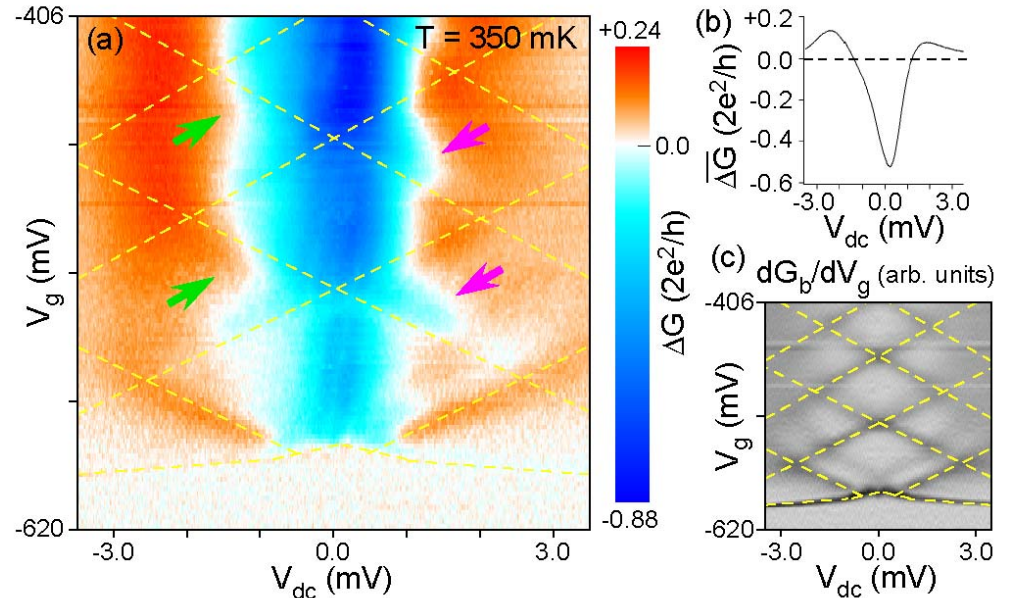
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³Department of Materials Science & Engineering,
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⁴Bell Labs, Alcatel-Lucent, Murray Hill, New Jersey 08544, USA



$$\frac{1}{\tau_{e-e}} = \frac{E_F}{4\pi\hbar} \left(\frac{\Delta}{E_F} \right)^2 \left[\ln \left(\frac{E_F}{\Delta} \right) + \ln \left(\frac{2Q_{TF}}{k_F} \right) + \frac{1}{2} \right]$$



Spatially probed electron-electron scattering in a two-dimensional electron gas

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