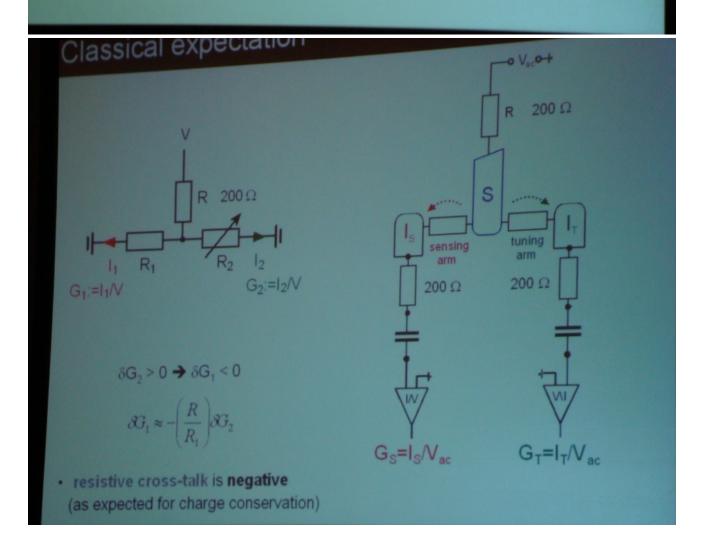
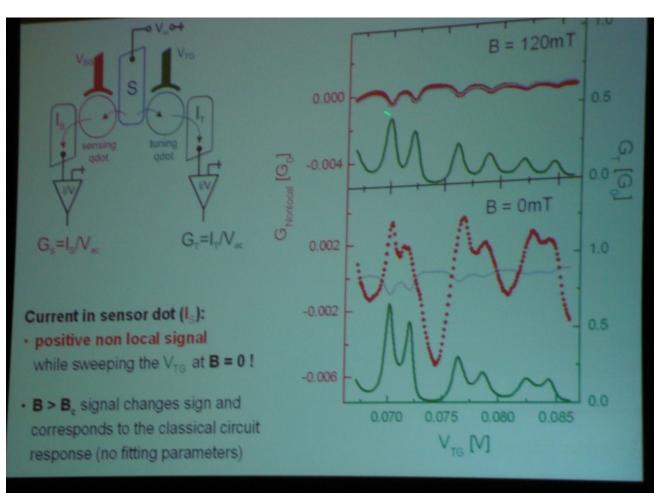
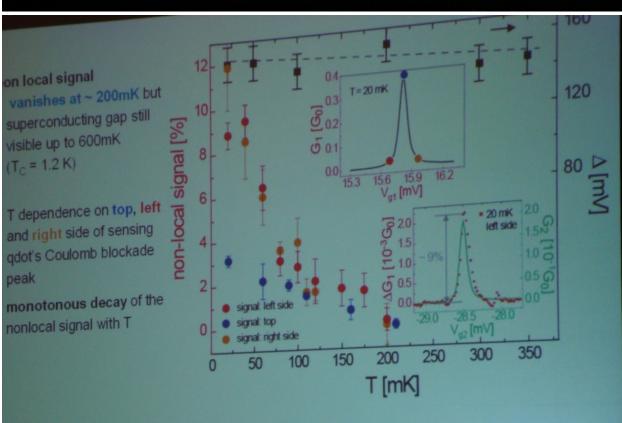


- · Coulomb blockade peaks through green tuning qdot
- · positive nonlocal signal through red sensing qdot while sweeping tuning qdot

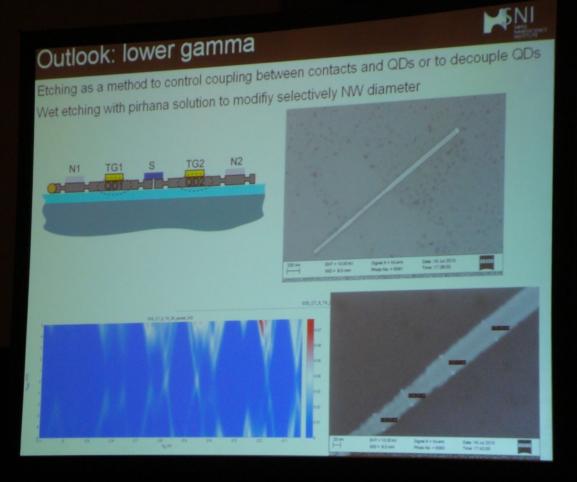


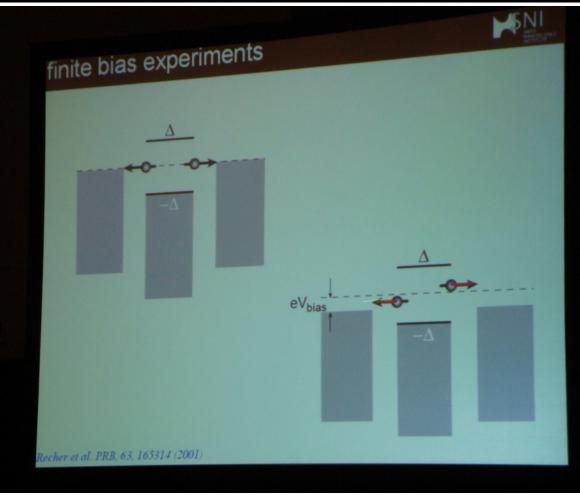


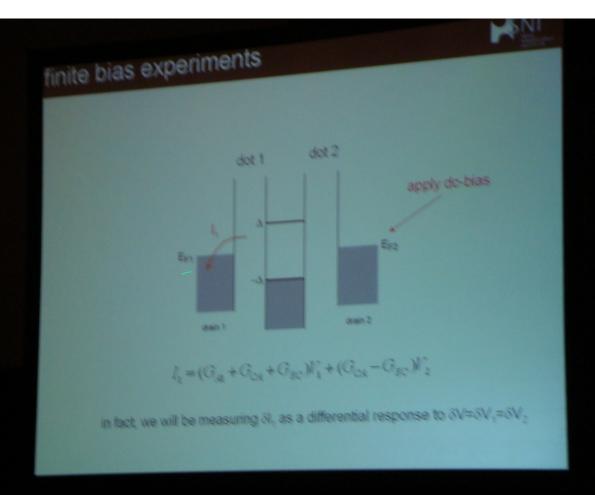


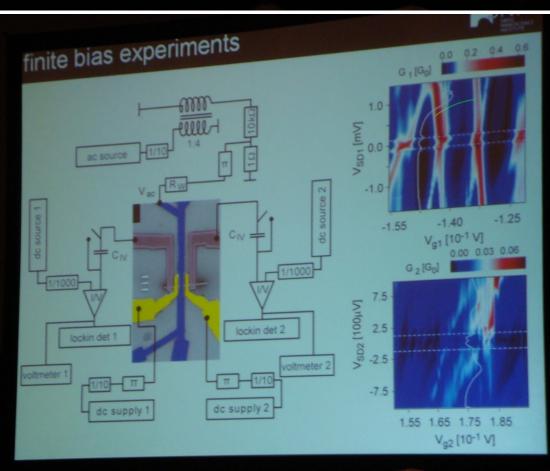
Hofstetter, S. Csonka, J. Nygard, and C. Schönenberger,

oper pair splitter realized in a two-quantum-dot Y-junction, Nature 460, 906 (2009).

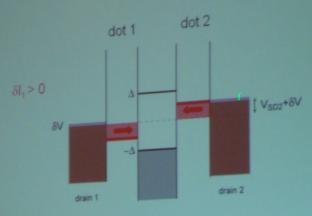








demonstrate CAR with finite bias



in contrast, crossed Andreev current is ${\sim}\delta V$ but δI_1 does also depend on the transmission on both sides

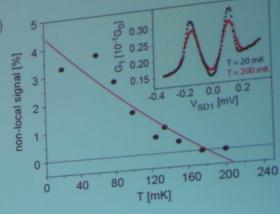
finite bias non local, T-dependence

non local-signal [%]: max (|1 - $G_1(V_{g1}, V_{SD2})/G_1(V_{g1}, V_{SD2}=1mV)|)$

 $V_{g1} = -0.1485 \text{ V}$, QD 1 in ac coupling $V_{g2} = 0.2344 \text{V}$

vanishes at ~175mK but SC not affected within this T range (see inset)

monotonous decay of non-local signal with T



→From T (and B) dependence: Not bulk-∆ dictates observed behaviour