

Summary Run MoAu2

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F15 A was a 4 wire measurement run with 3 **MoAu** devices in order to check the transition of the low TC MoAu devices which were tested with SQUID muxes in run F17A. Two of the devices are frame devices, one is a membrane device.

The following plots show the R-vs-T measurements:

The settings on the RV Electronica for the plots below were: $3\mu\text{V}$, range= 2 which yields a constant current of $1\mu\text{V}$ through the device.

Note the variations in R_{normal} .

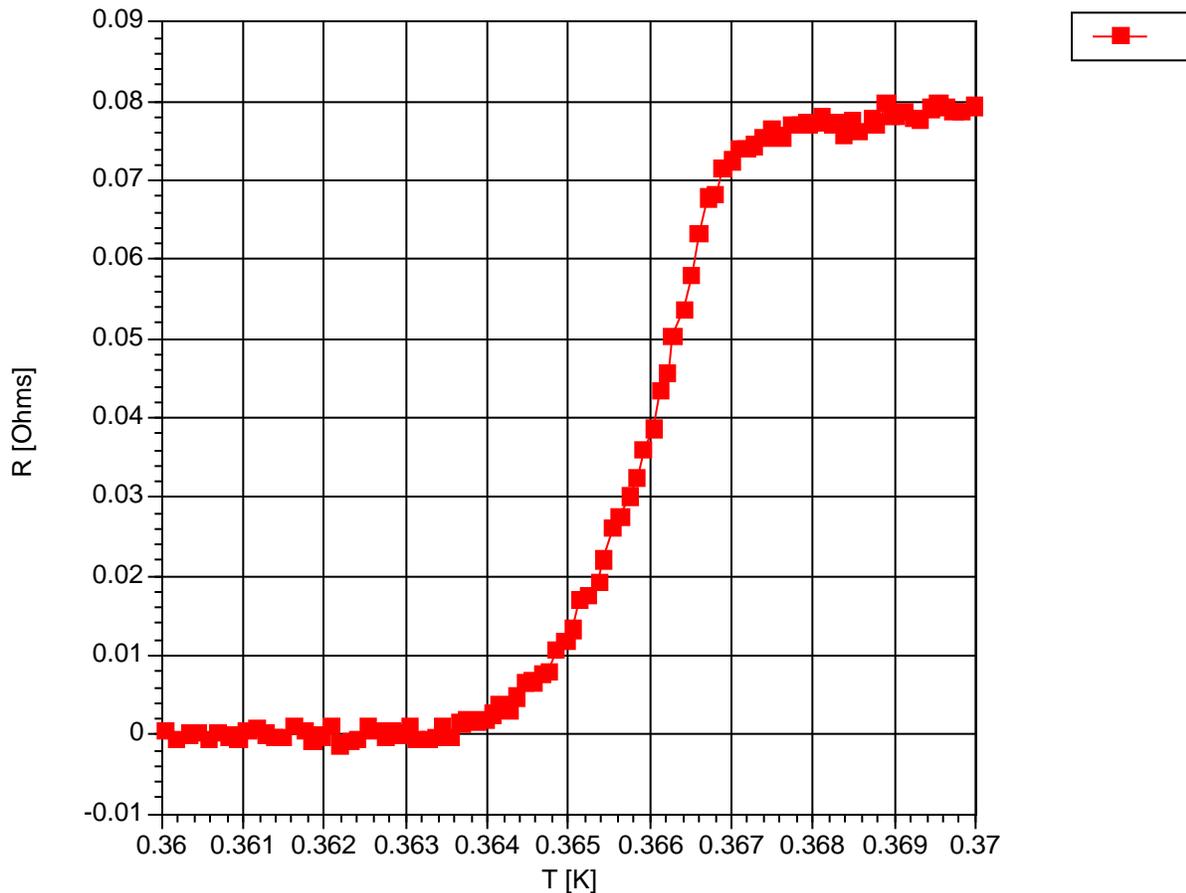
Frame device, col 0:

A linear fit to the slope between $R=0.1$ and $R=0.7$ yields:

$$dR/dT = 32.$$

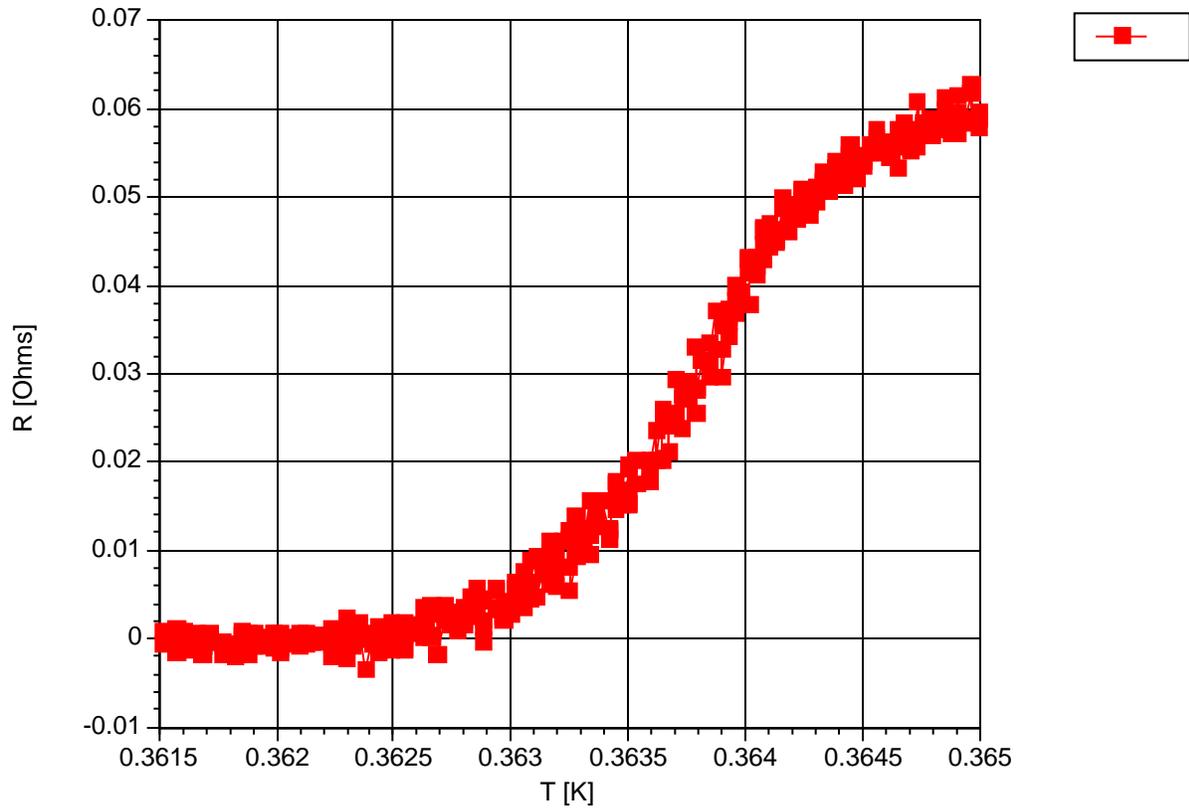
We get values for $dR/dT * T/R \sim 1000$ in the lower part of the transition

A slight steepening of the transition due to positive feedback is possible



Frame device, col1:

A linear fit to the slope between R= 0.1 Ohms and R=0.5 Ohms yields $dR/dT= 41$



membrane device:

Due to positive feedback (the RV electronica current biases the detector) on the transition, the transition appears significant steeper than it actually is

