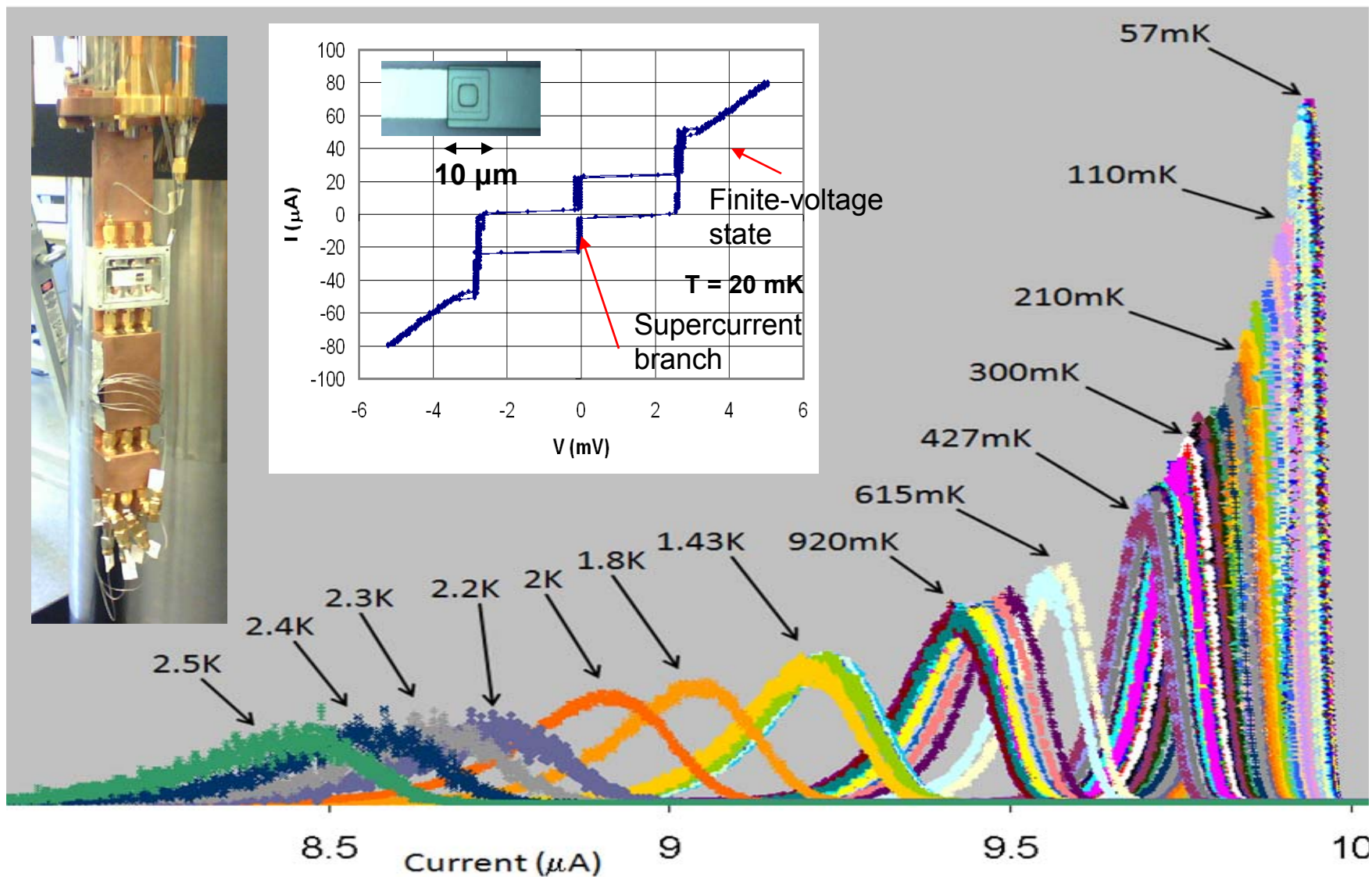
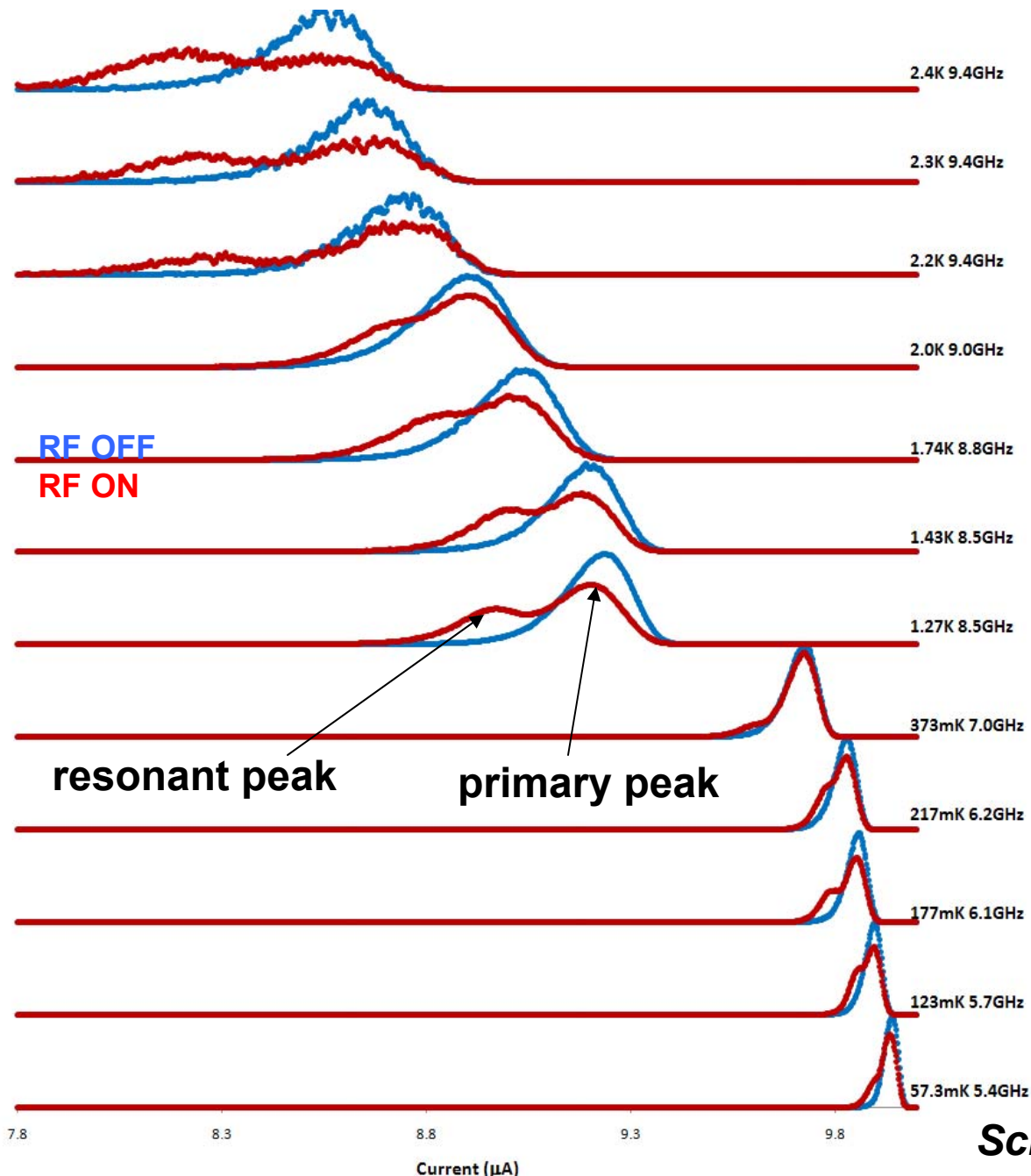


Measuring Escape Events from Nb JJ potential well (no microwaves) from **57mK** to **2.5 K**



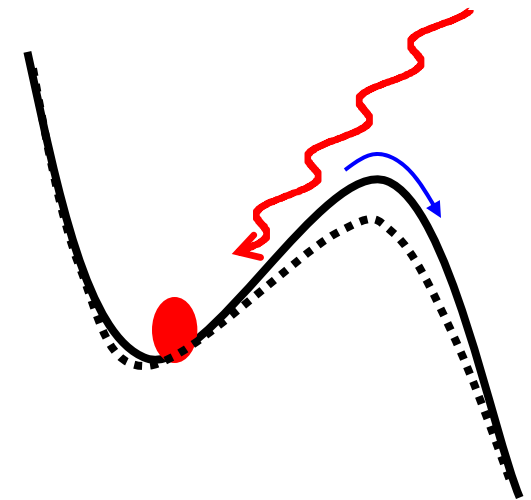
Scroll down for more data

Histograms of Switching Events for various Temperatures and Microwave Power



**Microwave Resonant
Activation at**

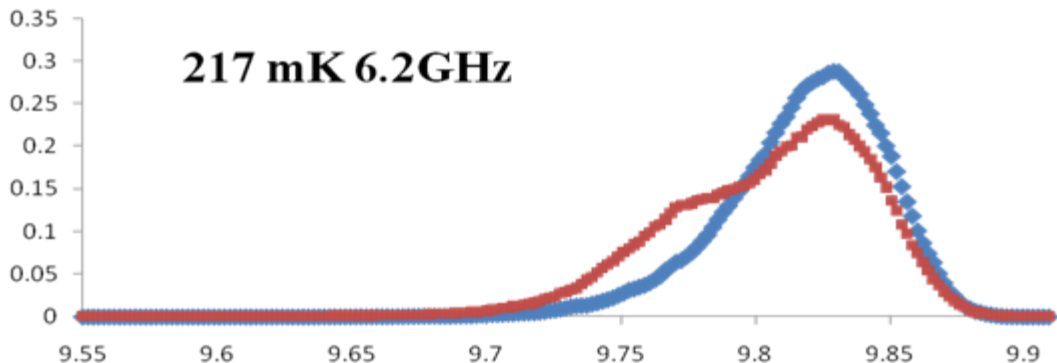
57mK to 2.4 K



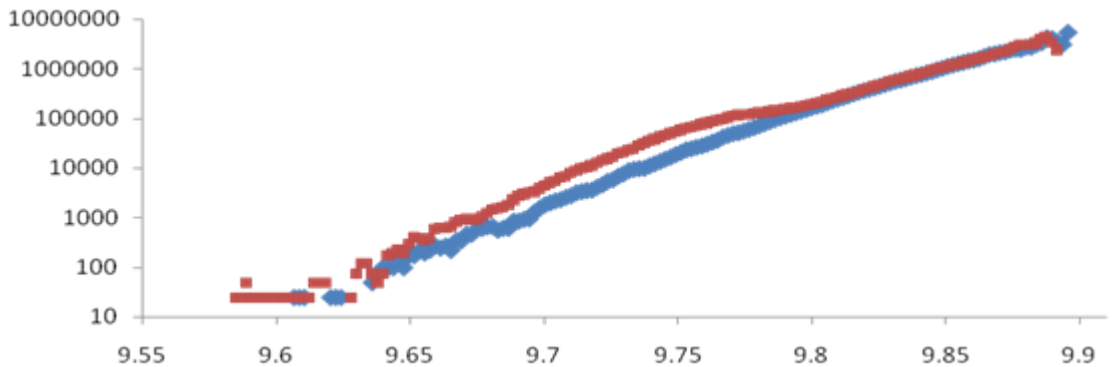
Scroll down for more data

More Classical Behavior (at “high” Temperatures)

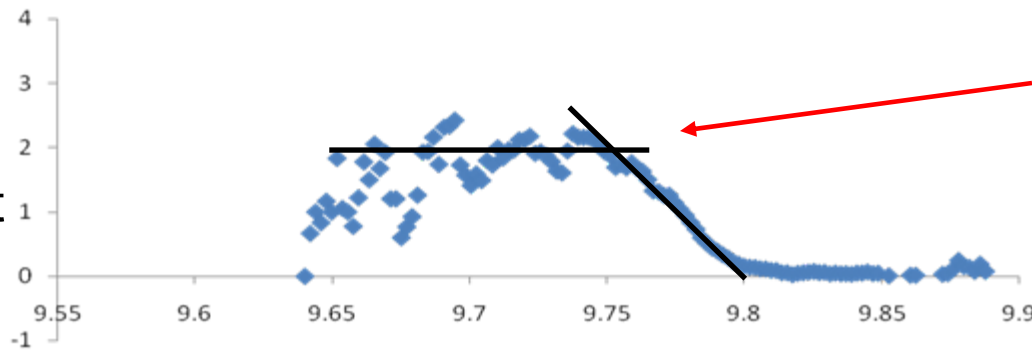
Switching
Event
Counts



Escape
Rate



Escape
Rate
Enhancement



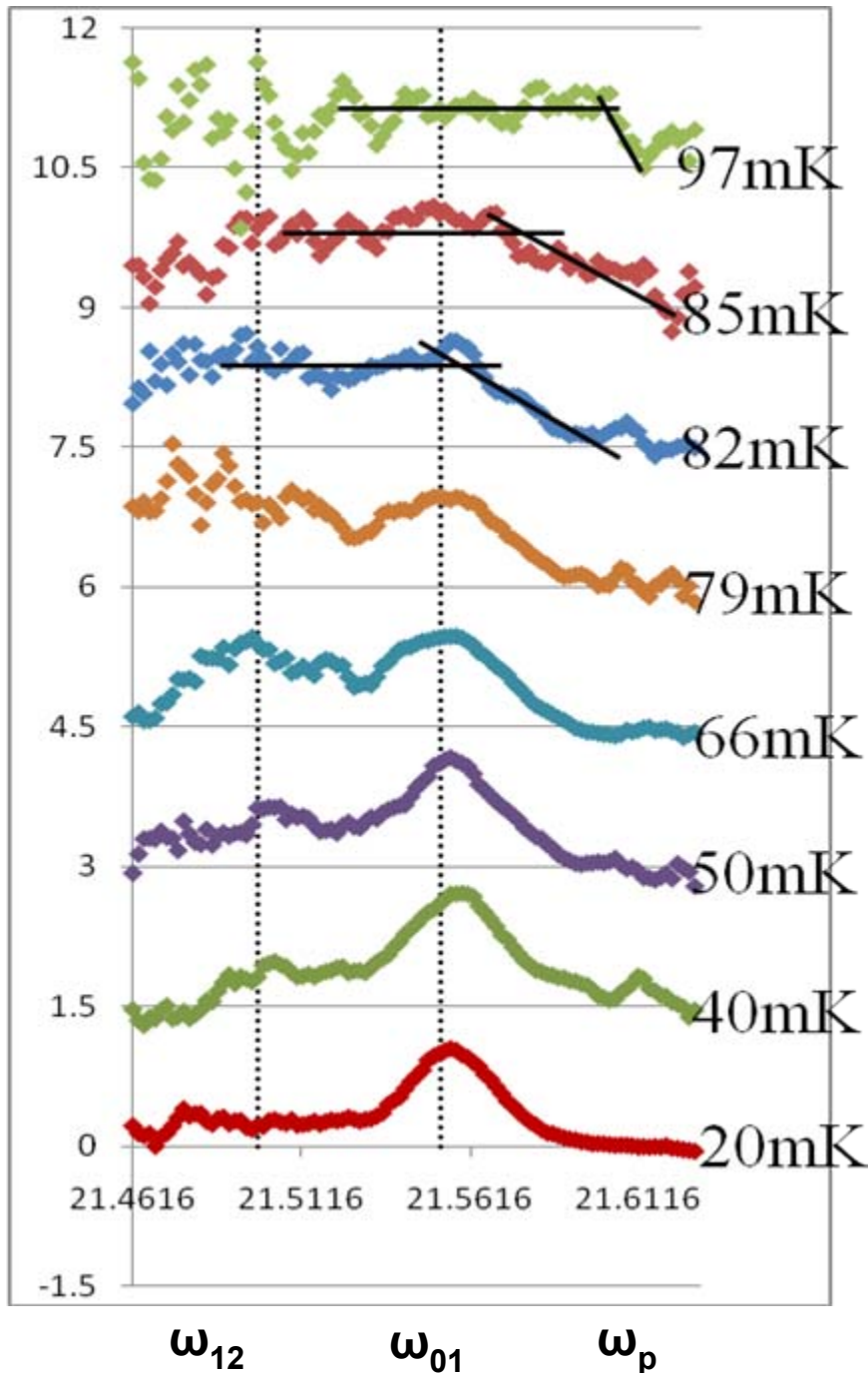
**Signature of
Classical Behavior:**

**A Step-like
Structure in
Escape Rate
Enhancement**

Scroll down for more data

Classical

Escape Rate Enhancements



Quantum

For microwave drive frequency of 12 Ghz,

$$\frac{hf}{2\pi} = kT_{cr}$$
$$T_{cr} = 92 \text{ mK}$$

Heating device above base Temp populates $|1\rangle$, $|2\rangle$.

As $T \rightarrow T_{cr}$, peaks broaden and makes a step.

At the same time, broadening causes an “elbow” to appear at $\omega_p > \omega_{01}$.