



Recent research:

- U-I characteristics for wolfram-based memristors BS-AF-W and DM8-16DIP-BS-AF
- Analyzing U-I characteristics behavior for higher frequencies.
- Observing that difference between R_{on} and R_{off} is getting smaller with the frequency growing (the curve is smashing)

Problems:

- Noise observed for higher frequencies
- The shape of the characteristic is changing during long term work of the memristive element

Future work:

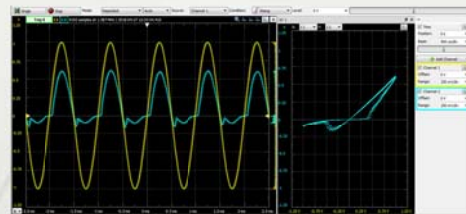
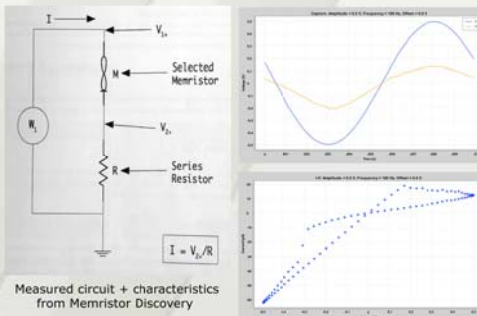
- Avoiding noise
- Long term analysis – obtain averaged characteristics for 100 periods or more



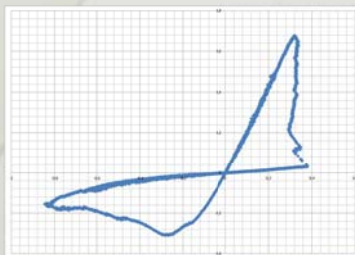
Measurement set provided by Knowm.Org + Memristor Discovery Software



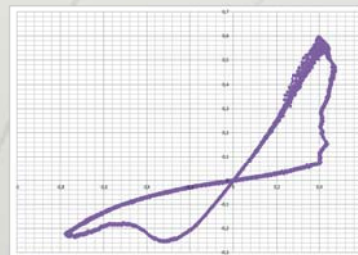
Measurement set provided by the author + Waveforms Software



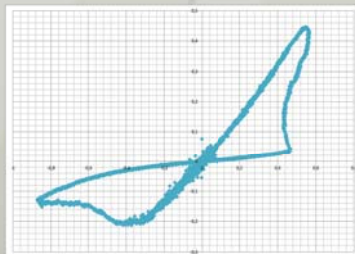
Waveforms workspace interface



U-I: Amplitude=1V, Frequency=50Hz, Offset=0.0V



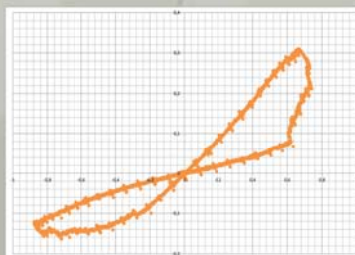
U-I: Amplitude=1V, Frequency=100Hz, Offset=0.0V



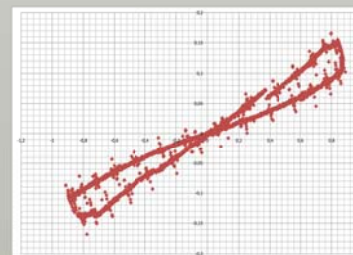
U-I: Amplitude=1V, Frequency=200Hz, Offset=0.0V



U-I: Amplitude=1V, Frequency=500Hz, Offset=0.0V



U-I: Amplitude=1V, Frequency=1kHz, Offset=0.0V



U-I: Amplitude=1V, Frequency=2kHz, Offset=0.0V