Ferromagnetic Hysteresis

A ferromagnetic material is placed inside the secondary coil of a transformer which is driven by a sine wave generator. A simple external circuit allows one to measure the integrated current through the secondary as well as the current through the primary which are measures of the magnetic field strength (B) and the magnetic flux density (H) respectively. Using an oscilloscope in xy-mode to observe these two quantities yields a classic hysteresis curve which changes with driving frequency, driving amplitude, and the material placed inside the secondary. A projection oscilloscope is available to display the oscilloscope trace on a screen or wall.
8. 15. N cabinet for scope

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