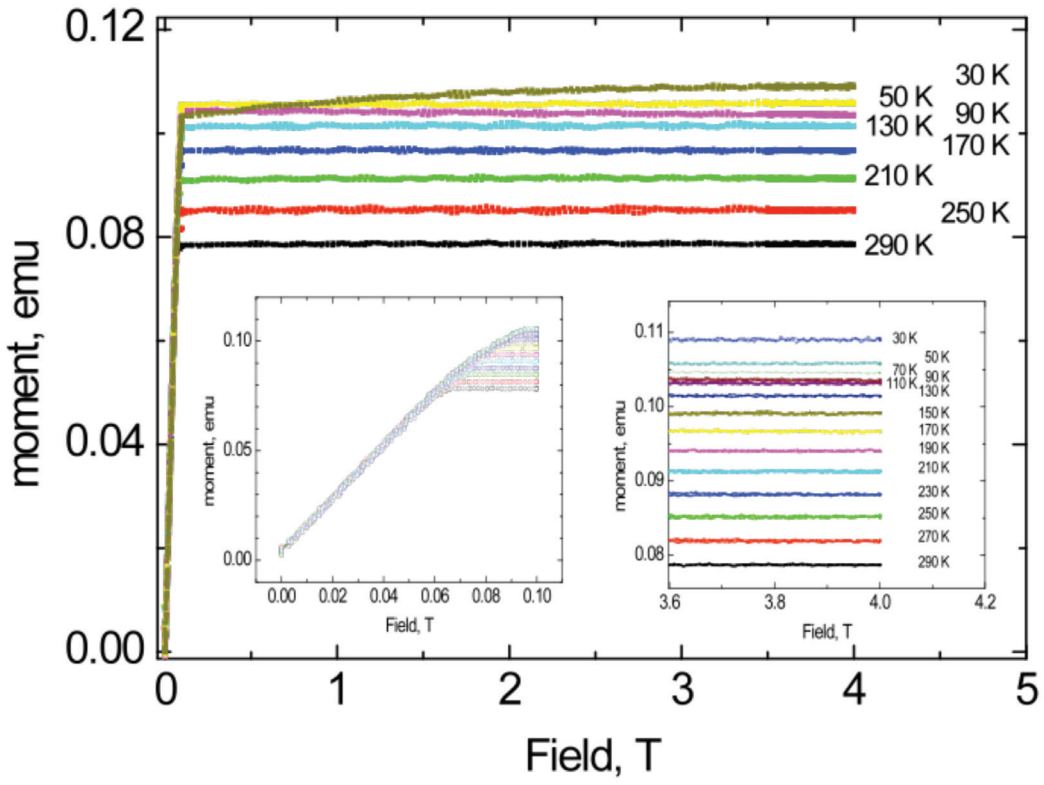
Vibrating Sample Magnetometer

Measurement Data

Magnetisation Curves of Yttrium -Iron Garnet



Magnetisation curves of the Yttrium-Iron Garnet sphere (NIST calibration sample), as measured at different temperatures. The slope at small field is temperature-independent (left inset), and the saturation magnetisation increases as the temperature decreases (right inset).

System	Cryogen-Free measurement system
Description of measurement	
Vibrator frequency	21 Hz
Vibration amplitude	1 mm
Direction of magnetic field	vertical (parallel to sample movement)
Rate of change of magnetic field	0.5 T/min
Rate of change of temperature	1 K/min
Sample	Palladium cylinder

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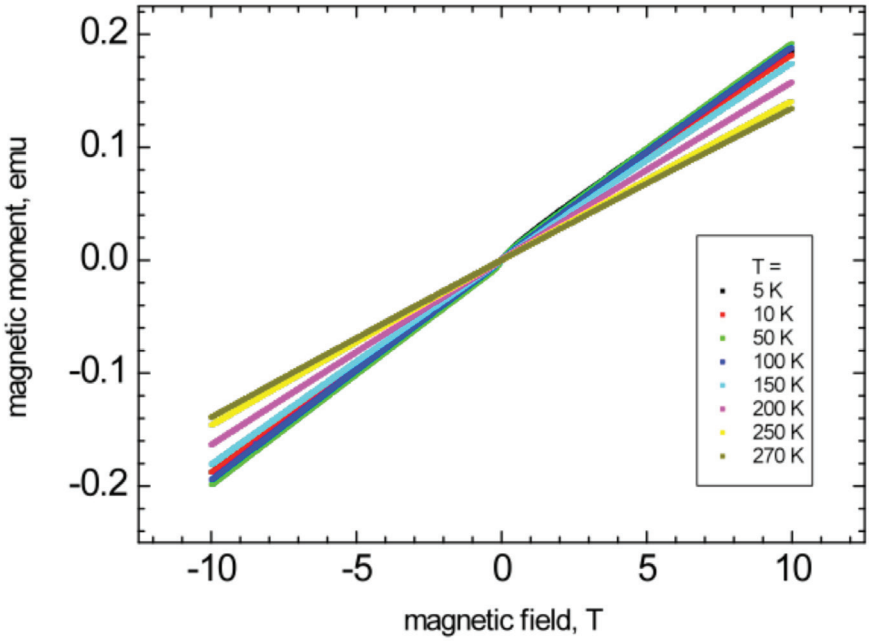
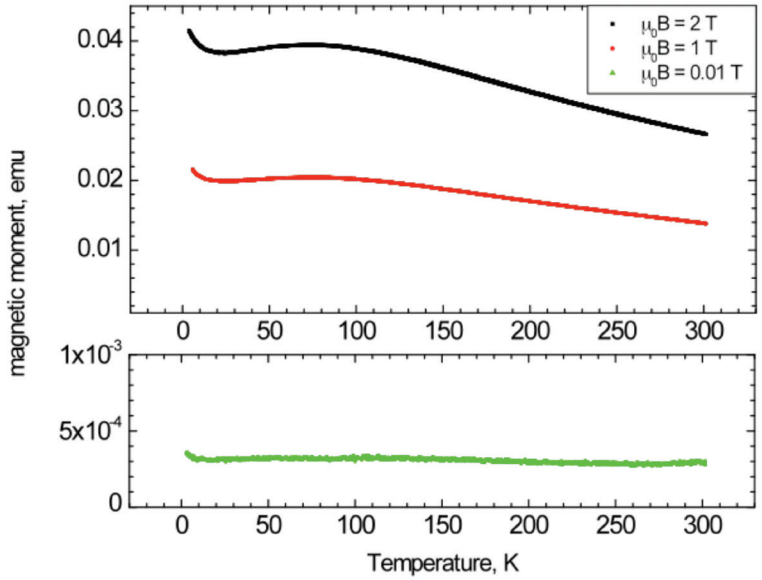
Measurement 1: magnetic moment as a function of field at fixed temperatures.



Measurement 2: magnetic moment as a function of continuously ramping temperature at fixed fields.



Palladium cylinder. Sample courtesy of Prof. M Valente, University of Aveiro