

Néel-line motion along Bloch walls

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The motion of Néel lines along subdivided 180° Bloch walls has been investigated on iron whisker single crystals by indirect optical observation through the influence on Bitter patterns. The field-induced displacement of the lines is dominated by microscopic Barkhausen jumps, where the lines exhibit a striking flexibility along their longitudinal extent. Phenomena such as line fusion, line nucleation, and interactions with crystal defects have been investigated more closely.