



Upper critical field of periodic and fractal Nb/Cu multilayers

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Abstract

Measurements of the upper critical field B_{c2} of superconducting Nb/Cu multilayers with fractal and periodic stacking sequence are reported. A positive curvature of the perpendicular magnetic field $B_{c2\perp}$, i.e. an upward deviation towards low temperatures from the linear $B_{c2\perp}(T)$ behavior of the WHH theory is observed. The temperature where this upturn occurs depends on the number of fractal scales S_n .

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