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Physics	I. R. METSKHVARISHVILI, N. P. KEKELIDZE, M. R. METSKHVARISHVILI Tbilisi State University, Physics Faculty Georgia, Chavchavadze ave. 3 380064, Tbilisi-GEORGIA
Keywords Authors	<u>Abstract:</u> The method of high harmonics is used to investigate penetration of low magnetic fields within the $Y_1Ba_2Cu_3O_7$ high-temperature superconductor ceramic. Given experimental results are explained by the modal dependencies between the value of critical current density and the magnetic induction B: $j_c(B) = j_c(0) \{ \frac{B_0^2}{B_0^2} \} \{ \frac{B_0^2}{B_0^2} + B^2 \} \}.$
@	Key Words: High-temperature superconductors, critical current density, low magnetic field, high harmonics.
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