

Abstract Submitted
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Superconductivity of YB₆. Energy gap and electron-phonon interaction studies by point-contact spectroscopy¹ PAVOL SZABO, JOZEF KACMARCIK, PETER SAMUELY, JAN GIROVSKY, SLAVOMIR GABANI, KAROL FLACHBART, Centre of Low Temperature Physics, IEP Slovak Academy of Sciences & P.J.Šafárik University, Slovakia, TAKAO MORI, Advanced Materials Laboratory, National Institute for Materials Science, Tsukuba, Ibaraki 305-0044, Japan — Yttrium hexaboride has the second highest critical temperature, $T_c \sim 8$ K, among all borides. The paper deals with the point-contact-spectroscopy study of its superconducting energy gap. The temperature dependence of the energy gap and the strength of the superconducting coupling are determined as well. By the same method also the electron-phonon interaction in the system is addressed.

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