

PHOTOELECTRONIC AND X-RAY
SPECTROSCOPY INVESTIGATION
OF INTERMETALLIC CeCu_2Si_2

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S u m m a r y

The electronic-energetic structure of the valence band CeCu_2Si_2 , a superconductor with anomalous properties, is investigated. At the Fermi level (E_F) of the compound under study, the intensive peak of the density of filled electronic states $g(E_F)$ is formed. The nature of its appearance is caused by the influence of the energetically stable $3d^{10}$ -configuration of Cu, which activates electronic states of atoms-components, Ce and Si, up to the Fermi level. The appearance of electrons of Ce with the $4f$ -symmetry in the vicinity of E_g leads to the formation of a peak of $g(E_F)$, which transforms into the Abricosov - Sul resonance at low temperatures.