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Photoemission Spectroscopy on the System of Non-centrosymmetric Lithium Ternary Borides¹ RIKIYA YOSHIDA, IZUMI HASE, KOZO OKADA, HIROYUKI TAKEYA, KAZUTO HIRATA, TAKAYUKI MURO, HIROYUKI OKAZAKI, MITSUTOSHI TAJIMA, MASAOKI HIRAI, YUJI MURAOKA, TAKAYOSHI YOKOYA, Okayama University — We performed x-ray photoemission spectroscopy at BL27SU of SPring-8 on polycrystalline samples of $\text{Li}_2\text{Pd}_{1.5}\text{Pt}_{1.5}\text{B}$ and $\text{Li}_2\text{Pt}_3\text{B}$ prepared by the arc melting method. We also employed a polycrystalline platinum plate commercially available for comparison. We also performed the calculation of valence band structure of $\text{Li}_2\text{Pt}_3\text{B}$ using full-potential augmented plane wave method with local density approximation. Our experimental data on the samples and the previous photoemission study on $\text{Li}_2\text{Pd}_3\text{B}$ support that electron correlations do not play an important role in them.

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Prefer Oral Session
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Rikiya Yoshida
gsc19128@cc.okayama-u.ac.jp
Okayama University

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