ON THE UNCONDITIONAL BUNDLE CONVERGENCE IN $L_2$-SPACE OVER A VON NEUMANN ALGEBRA

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Abstract: The Tandori theorem concerning the sufficient condition for the unconditional a.e. convergence of orthogonal series is generalized for the bundle convergence in $L_2$-space over a $\sigma$-finite von Neumann algebra. The result implies a noncommutative version of the Orlicz theorem proved earlier by Hensz, Jajte and Paszkiewicz.

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