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Notes on approximation in the Musielak-Orlicz spaces of vector multifunctions

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Abstract: We introduce the spaces $M_{Y,\varphi}^1$, $M_{Y,\varphi}^{o,n}$, $\tilde{M}_{Y,\varphi}^o$ and $M_{Y,\mathbf{d},\varphi}^o$ of multifunctions. We prove that the spaces $M_{Y,\varphi}^1$ and $M_{Y,\mathbf{d},\varphi}^o$ are complete. Also, we get some convergence theorems.

Keywords: Musielak-Orlicz space, multifunction, modular space of multifunctions, integral operator, modular approximation

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