

On ranges of continuous linear operators between some non-archimedean Fréchet spaces

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The non-archimedean generalized power series spaces $D_f(a, r)$ are important examples of non-archimedean nuclear Fréchet spaces. We prove that for some pairs $(D_f(a, r), D_f(b, s))$ of these spaces the range of every continuous linear map from $D_f(a, r)$ to $D_f(b, s)$ has a Schauder basis.

In our previous paper (published in Canadian Journal of Mathematics) we proved a similar result for non-archimedean power series spaces.