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Section:

8. Analysis

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An operator representation for weighted inductive limits of spaces of vector valued holomorphic functions

Starting from the operator representation $HV(G, E_b') = \mathcal{L}(E, HV(G))$ for weighted spaces of vector valued holomorphic functions (cf. the talk by the second-named author), we discuss the rather different question when a topological isomorphism

$$\mathcal{V}H(G, E_b') = \mathcal{L}_b(E, \mathcal{V}H(G))$$

holds for weighted (LB)-spaces $\mathcal{V}H(G)$ and Fréchet spaces E. We point out the relation to a special case of Grothendieck's "problème des topologies", which raises the (open) question under which conditions $\mathcal{V}H(G)$ has (QNo)' in the notation of A. Peris. Moreover, there is an interesting relation to the vector valued projective description problem.
(The talk will be given by the first-named author.)