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題名 : Closed exact categories of modules over generalized adic rings

要旨 : We give a definition of a category of "quasi-coherent sheaves" (of topological modules) on formal adic schemes without noetherian conditions, on Berkovich spaces, and on certain analytic adic spaces. The main thing is that this additive category is quite big (it includes all completed direct sums) and it is exact in the sense of Quillen. Moreover, it has enough "projectives" (P is projective if $\text{Hom}(P, -)$ transforms Cokernels into surjections; completed direct sums are projective). So, quasi-coherent cohomology exists. Another good point is that this category of coefficients has a tensor product and an internal Hom that are adjoint to each other: the category is "closed". Over a trivially valued field it just gives the usual category of quasi-coherent sheaves on schemes. The same category in fact exists for formal adic schemes, without noetherian conditions.