

Holonomic \widehat{D} modules on smooth rigid analytic spaces

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The speaker and Ardakov introduced a sheaf \widehat{D} of possibly infinite-order differential operators on any smooth rigid analytic space together with a notion of coadmissible \widehat{D} module that is supposed to be roughly analogous to the notion of a coherent D -module on an algebraic variety. In this talk we will discuss a notion of a holonomic \widehat{D} module in this context (in characteristic 0) and some of its good properties and its limitations.