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The Borel map on compact sets of the complex space

In this talk I will recall the results we have obtained so far regarding the Borel map defined in the Fréchet algebra obtained by taking limits of holomorphic functions as well of their derivatives on a compact subset of $\mathbb{C}^m$. I shall state precisely some conjectures, I will recall that these conjectures are satisfied in the case $m = 1$ and that, in the general case, they also hold true when the compact set is a polyhedra. In the latter case I shall present the complete proof. This is a joint project which has been carried out in collaboration with B. Lamel and G. Della Sala.