

第02回


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 - 題目: Interpolation problems in Hörmander algebras
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We call Hörmander algebras the spaces $A_p(\mathbb{C})$ of entire functions f such that, for all $z \in \mathbb{C}$, $|f(z)| \leq A e^{Bp(z)}$, where A and B are some positive constants (depending on f) and p is a subharmonic weight. We consider the following interpolation problem :

Given a discrete sequence $\{a_j\}$ of complex numbers and a sequence of complex values $\{b_j\}$, under what conditions does there exist a function $f \in A_p(\mathbb{C})$ such that $f(a_j) = b_j$ for all j ?

In other words, what is the trace of $A_p(\mathbb{C})$ on $\{a_j\}$? We say that $\{a_j\}$ is an interpolating sequence if the trace is defined by the space of all $\{b_j\}$ satisfying $|b_j| \leq A e^{Bp(a_j)}$, for some constants $A, B > 0$. We use Hörmander's L^2 -estimates for the $\bar{\partial}$ -equation to describe the trace when the weight p is radial and doubling and to characterize the interpolating sequences for more general weights.



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11 images

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