

FAAT 2004

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**Grauert and Lax-Halmos Type Theorems and
Extension of Matrices with Entries in H^∞**

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In the talk I describe an extension theorem for matrices with entries in $H^\infty(U)$ for U a Riemann surface of a special type. One of the main components of the proof is a Grauert type theorem for “holomorphic” vector bundles defined on maximal ideal spaces of certain Banach algebras.