

*Banach Algebras 2009*

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***Fréchet algebras, formal power series, and analytic structure***

ABSTRACT. The notion of *local Riemann algebras* is introduced. By studying the ideal structure of Fréchet algebras, we provide sufficient conditions for the existence of *local analytic structure* in the spectrum of a Fréchet algebra, and, as an application, we characterize local Riemann algebras.