

MATHEMATICAL ASSOCIATION OF AMERICA, INC.
ABSTRACT OF PAPER

Title of Paper:

*Representations
of C^* -algebras*

Time..... minutes.

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Member of Mathematical Association
of America: Yes No

ABSTRACT

The abstract should be in the form of a brief and concise statement of the main results or points of view of the paper, without demonstrations and with a minimum of formulae. It should not exceed 100 words and should be compressed if possible into a single paragraph. It should be written in the third person. The abstract should be typewritten and in a form suitable for immediate publication in the MONTHLY.

Given a C^* -algebra A , a fiber-bundle-like structure (B, π, Q) is constructed from A and its set Q of primitive ideals. The space of continuous cross-sections of this bundle is then given the structure of a C^* -algebra. The main result of the theory is a non-commutative analogue of the classical Gelfand-Naimark Theorem for commutative C^* -algebras.