## Topics in linear isometries of function algebras

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## Abstract

– Uniform algebras on a compact Hausdorff space  ${\cal M}$  and unital, commu-

– Examples:

– Linear isometries of a class of function algebras.

– The Banach-Stone theorem and some of its generalizations.

- Linear isometries of  $\mathcal{A}^0$  and their spectra.
- Iterates of linear isometries of  $\mathcal{A}^0$  and  $\mathcal{H}^\infty$
- Strongly continuous semigroups of  $H^{\infty}$ .

## II. Operator-valued inner maps

– Subharmonicity of the spectral radius. A maximum theorem for the peripheral spectrum.

I. Banach-Stone type theorems for uniform algegras

tative Banach algebras.

<sup>–</sup> Uniform algebras and Bernard's theorem.

<sup>1.-</sup> C(M) and a theorem of Phelps.

<sup>2.-</sup> The disc algebra and inner functions in  $\mathcal{A}^0$ .

<sup>3.-</sup> The Hardy space  $H^\infty$  and Marshall's theorem.

<sup>-</sup> Holomorphic families of linear contractions.