

algebras

Larry B. Schweitzer

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Dense nuclear Fréchet ideals in \$C^\star\$-

We show that a \$C^\star\$-algebra \$B\$ contains a dense left or right Fr\'echet ideal \$A\$, with \$A\$ a

nuclear locally convex space, if and only if the primitive ideal space Prim\$(B)\$ of \$B\$ is discrete and

countable, and \$B/I\$ is finite dimensional for each \$I \in \$ Prim\$(B)\$. Here \${| \cdot |_n}_{n=0}^\infty\$ denotes a family of increasing norms topologizing \$A\$. We show the forward implication holds for a

general Banach algebra \$B\$, if the ideal is assumed two-sided. For \$C^\star\$-algebras, we construct

dense nuclear ideals by defining a set of matrix-valued Schwartz functions on the countable discrete

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space Prim\$(B)\$.

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