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Peripherally multiplicative surjections between uniform algebras.

Let A and B be uniform algebras. If S and T are surjections from A onto B satisfying $S(1) = T(1) = 1$ and $\sigma_\pi(S(f)T(g)) = \sigma_\pi(fg)$ for all $f, g \in A$, then there exists a homeomorphism ϕ from $\mathrm{Ch}(B)$ to $\mathrm{Ch}(A)$ such that $S(f)(y) = T(f)(y) = f(\phi(y))$ for every $f \in A$ and $y \in Ch(B)$, where σ_π denotes the peripheral spectrum and $\mathrm{Ch}(\cdot)$ denotes the Choquet boundary. (Received March 04, 2009)