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A Gleason-Kahane-Żelazko theorem for reproducing kernel Hilbert spaces.

The Gleason-Kahane-Żelazko theorem states that a linear functional on a Banach algebra that is non-zero on invertible elements is necessarily a scalar multiple of a character. In this talk I shall describe an analogue of this result for a certain class of Hilbert spaces. (Joint work with Cheng Chu, Michael Hartz and Javad Mashreghi.)