ANALYSIS SEMINAR

A REPRESENTATION THEOREM FOR D-RINGS

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ABSTRACT. Let C(X) be the space of all real-valued functions on a completely regular topological space X and let * be an associative multiplication in C(X). Then C(X) is a d-ring with respect to * if and only if * id a weighted composition multiplication in C(X). The latter means that there exist a weight function w in C(X)and two maps r and s from X into X such that (f * g)(x) = w(x)f(r(x))g(s(x))for all x in X and f, g in C(X).