1056-47-2124   **Hutian Liang*** (`hliang@uoregon.edu`), 2250 Patterson St., Unit 39, Eugene, OR 97405.
Recursive Decomposition of a C^*-subalgebra of $C^*(R, X)$. Preliminary report.

Crossed product of C*-algebras by locally compact groups have been studied widely. When the group is the the group of integers Z, and when the C*-algebras is the continuous functions on compact metric spaces $C(X)$, it is shown that, in some cases, the crossed product has tracial rank zero. The crossed product having tracial rank zero was shown, by Lin and Phillips, by looking at a subalgebra that has a recursive structure. In this presentation, we briefly introduce the crossed product of $C(X)$ by the reals R. We then will discuss how to find a subalgebra of the crossed product of $C(X)$ by R, analogous to the one in the integer case,that has an recursive structure. (Received September 23, 2009)