

**Echterhoff, Siegfried**

**On induced covariant systems.** (English) Zbl 0692.46054  
Proc. Am. Math. Soc. 108, No. 3, 703-706 (1990).

Let  $H$  be a closed subgroup of a locally compact group  $G$  such that  $H$  acts strongly continuously by  $*$ -automorphism on a  $C^*$ -algebra  $D$ . The symbol  $\text{Ind } D$  denotes the induced  $C^*$ -algebra.

It is known that there is a continuous  $G$ -invariant map  $\phi : \text{prim}(\text{Ind } D) \rightarrow G/H$ , which is defined by  $\phi(J) = xH$  if  $J$  contains the ideal  $I(x) = \{f \in \text{Ind } D : f(x) = 0\}$ .

In this note the author shows the converse of this proposition namely that if  $(G, A)$  is a covariant system and if  $I = \bigcap \{J : J \in \phi^{-1}(\{eH\})\}$  and  $D = A/I$ , then  $(G, A)$  is isomorphic to  $(G, \text{Ind } D)$ . Here the  $G$ -equivariant isomorphism  $\phi : A \rightarrow \text{ind } D$  is specified. In addition, there are two interesting corollaries.

Reviewer: [J.C.Rho](#)

**MSC:**

- 46L55 Noncommutative dynamical systems
- 46L05 General theory of  $C^*$ -algebras
- 22D30 Induced representations for locally compact groups

Cited in **1** Review  
Cited in **5** Documents

**Keywords:**

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**Full Text:** [DOI](#)

**References:**

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