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**Maribel Loaiza\*** (mloaiza@matem.unam.mx), Instituto de Matematicas, Area de la Investigacion Cientifica, Circuito Exterior, Ciudad Universitaria., 04510 Mexico, D. F., Mexico. *On the algebra generated by the harmonic projection and operators of multiplication by piecewise continuous functions.*

Let  $D = \{z \in \mathbb{C} \mid |z| < 1\}$  and  $\mathcal{L}$  be a finite collection of smooth curves in  $D$ . For  $k$  points  $z_1, \dots, z_k \in \partial D$  consider the family  $PC(D, \mathcal{L}) \subset L_\infty(D)$  of all bounded and continuous functions on  $D \setminus \mathcal{L}$ , with finite limits at  $z_1, \dots, z_k$ . Denote by  $H$  the subspace of  $L_2(D)$  of all complex-valued harmonic functions. The harmonic projection  $P_H$  is the orthogonal projection from  $L_2(D)$  onto  $H$ . We study the  $C^*$ -algebra  $\mathcal{R}$  generated by all operators of the form

$$A = a(z)(I - P_H) + b(z)P_H + K,$$

where  $K$  is a compact operator and  $a, b \in PC(D, \mathcal{L})$ . (Received February 26, 2004)