

---

**CHAFIQ BENHIDA,**

*Multicontractions, Poisson kernel and characteristic function*

Let  $\mathcal{H}$  be a Hilbert space and  $T_i$  be a bounded linear operator on  $\mathcal{H}$  for  $1 \leq i \leq n$ . The  $n$ -tuple  $T = (T_1, \dots, T_n)$  is a *multicontraction* if  $\sum_{i=1}^n T_i T_i^* \leq \mathbf{1}_{\mathcal{H}}$ .

The Poisson kernel and the characteristic function are two important objects associated to a multicontraction  $T$  in Popescu's theory. We give their behaviour with respect to the action of the group of unitarily implemented automorphisms of the algebra generated by creation operators on the Fock space.