In the proof of Lemma 3.6, a reference is made to the thesis of N. Oudjane (p. 66). To apply this result directly, one needs that the measure  $\lambda$  we use is a probability measure on  $C_k(\Delta)$ . This is not the case as we took  $\lambda$  to be the Lebesgue measure. There are two remedies.

- 1. The best way would be to rewrite everything, this time with taking not dx'in the second line of (3), but a probability measure. The second line of (3) can be replaced by  $\Psi_{k+1}^{\Delta}(x')Q(x_0, dx')$  for some arbitrary  $x_k$  in  $C_k(\Delta)$ . The whole computation will run in the same way (with modified  $\xi_1, \xi_2$ which will even be simpler than in the present form of the paper).
- 2. One can also point a minimal transformation : the  $C_k(\Delta)$ 's are of finite diameter ( $\leq b_0 + 2b_1\Delta$  by (H2)) so if we rewrite carefully the proof of Lemma 3.6, we will end with  $\alpha(\Delta)(1 + (b_0 + 2b_1\Delta)^d) \times (\text{some constant})$  instead of  $\alpha(\Delta)$ , which is not as good as before but should all the same go to 0 as  $\Delta \to +\infty$ .