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Doyoon Kim. *L_p and Schauder estimates for a class of non-local elliptic equations.*

I will discuss some recent results about L_p and Schauder estimates for a class of non-local elliptic equations which are associated to pure jump Levy processes. Compared to previous known results, the novelty of our results is that the kernels of the operators are not necessarily to be homogeneous, regular, or symmetric. (Received January 15, 2012)