

Barlow, M. T.**Necessary and sufficient conditions for the continuity of local time of Lévy processes.**(English) [Zbl 0666.60072](#)[Ann. Probab. 16, No. 4, 1389-1427 \(1988\).](#)

The author and *J. Hawkes* [C. R. Acad. Sci., Paris, Sér. I 301, 237-239 (1985; [Zbl 0584.60087](#))] obtained a sufficient condition for the joint continuity of the local time process $(x, t) \rightarrow L_t^x$, where L_t^x is local time at x , for a class of one-dimensional Lévy processes. In this paper, the author succeeds in showing that the sufficient condition is also necessary. In addition, he obtains an exact modulus of continuity for $x \rightarrow L_t^x$ for a wide class of processes.

Reviewer: J.B.Mitro

MSC:

- 60J55** Local time and additive functionals
60G17 Sample path properties
60J99 Markov processes

Cited in **4** ReviewsCited in **23** Documents**Keywords:**[joint continuity of the local time process; Lévy processes; modulus of continuity](#)**Full Text:** [DOI](#)