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Maxima of linear processes with heavy-tailed innovations and random coefficients. (English)  
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Summary: We investigate maxima of linear processes with i.i.d. heavy-tailed innovations and random coefficients. Using the point process approach we derive functional convergence of the partial maxima stochastic process in the space of non-decreasing càdlàg functions on $[0,1]$ with the Skorokhod $M_1$ topology.

MSC:
60F17 Functional limit theorems; invariance principles
60G70 Extreme value theory; extremal stochastic processes

Keywords: functional limit theorem; regular variation; extremal process; $M_1$ topology; linear process

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