

论文

## SMOOTH PL-ESTIMATOR OF DISTRIBUTION FUNCTION UNDER RANDOM TRUNCATION DATA

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**摘要** For the nonparametric smooth PL-estimator  $F_n$ , the smooth PL-process  $(F_n - F)$  can be uniformly represented by a smooth empirical process plus a negligible remainder term when the data are subject to random left truncation. The law of the iterated logarithm (LIL) and the weak convergence of the smooth PL-process are established from this representation.

**关键词** [Smooth PL-estimator](#), [smooth PL-process](#).

分类号

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**Key words** [Smooth PL-estimator](#) [smooth PL-process](#) [empirical process](#) [hazard function and weak convergence](#)

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