

**SOME RESULTS ON THE SUBSAMPLING FOR ϕ -MIXING
PERIODICALLY STRICTLY STATIONARY TIME SERIES**

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Abstract: The article deals with the special subclass of ϕ -mixing periodically correlated (PC) time series and the estimation of autocovariance through Fourier coefficients. The aim is to investigate whether the subsampling of the autocovariance estimator is consistent. It is shown that the consistency holds for frequencies $\lambda = 0$ and $\lambda = \pi$. Theoretical reasoning is supplemented with a simulation study.

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Key words and phrases: Periodically correlated time series, subsampling, consistency, ϕ -mixing property.

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