## Maximum Likelihood Estimator for Discretely Observed CIR Model with Small $\alpha\text{-Stable Noises}$

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**Abstract**: The maximum likelihood estimation of the drift and volatility coefficient parameters in the CIR type model driven by  $\alpha$ -stable noises is studied when the dispersion parameter  $\varepsilon \to 0$  and the discrete observations frequency  $n \to \infty$  simultaneously. The joint density of the sample is approximated by using the stable distributions.