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# Arbitrage-free approximation of call price surfaces and input data risk

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Keywords

Volatility s

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# Notes

†Define the function $f(K, \tau) \coloneqq C(Ke^{(r-q)\tau}, T + \tau)e^{q\tau}$, then $\partial f/\partial \tau|_{\tau = 0}$ corresponds to the above differential quotient.