$f'(x, x') = \tau^2 I + \sigma^2 \exp\left(-\frac{1}{2} \left(\frac{\|x - x'\|}{1/\phi}\right)^2 - \frac{2\sin^2\left(\frac{1}{2}\frac{\|x - x'\|}{\gamma}\right)}{1/\phi}\right)$