



BRITISH EMBASSY
BELGRADE

$$\frac{\partial^4 r}{\partial s_i \partial s_j \partial t_k \partial t_l} = \text{cov} \left(\frac{\partial^2 f(s)}{\partial s_i \partial s_j}, \frac{\partial^2 f(t)}{\partial t_k \partial t_l} \right)$$

$r(t)$

$$\frac{\partial^4 r}{\partial s_i \partial s_j \partial t_k \partial t_l}$$

time this at $s=t$

$s=t$

$\frac{N(N-1)}{2}$

$N(N-1)/2$

$$\sum \frac{\partial^4 r}{\partial s_i \partial s_j \partial t_k \partial t_l} \bigg|_{s=t}$$

$$\Rightarrow \frac{\partial^4 r}{\partial s_i \partial s_j \partial t_k \partial t_l} = \frac{\partial^4 r}{\partial s_i \partial s_j \partial t_k \partial t_l} \bigg|_{s=t}$$

need K
not this!

So