

$$\det \text{cov} \left( f'(t), f'(t) + f''(t)(s-t) + Z_{t,s}' |s-t|^{1+H} \right.$$

$$\left. \begin{aligned} & f'(t) + f''(t)(r-t) \\ & + \frac{1}{2}(r-t)^2 f'''(t) + Z_{t,r}' \end{aligned} \right) \times (|s-t|^2)^{1+H}$$

$$= \det \text{cov} \left( f'(t), f''(t)(s-t) + |s-t|^{1+H} Z_{t,s}', \right.$$

$$\left. f''(t)(r-t) + \frac{1}{2}(r-t)^2 f'''(t) + Z_{t,r}' |s-t|^{2H} \right)$$

$$= (s-t)^{2N} (r-t)^{2N}$$

$$\times \det \text{cov} \left( f'(t), f''(t) + |s-t|^{1+H} Z_{t,s}', \right.$$

$$\left. f''(t) + \frac{1}{2}(r-t)^2 f'''(t) + Z_{t,r}' |s-t|^{2H} \right)$$

$$= (s-t)^{2N} (r-t)^{2N} \det \text{cov} \left( f'(t) - f''(t) - |s-t|^{1+H} Z_{t,s}', \right.$$

$$\left. f''(t) + |s-t|^{1+H} Z_{t,s}', \right.$$

$$\left. \frac{1}{2}(r-t)^2 f'''(t) + Z_{t,r}' - |s-t|^{1+H} Z_{t,s}' \right)$$

If can get rid of the  $Z$ s, Then this becomes:  
i.e via an of(I) argument.

$$= (s-t)^{2N} (r-t)^{2N}$$

$$\times \det \text{cov} \left( f'(t) - f''(t) - |s-t|^{1+H} Z_{t,s}', \right.$$

$$\left. f''(t), \frac{1}{2}(r-t)^2 f'''(t) \right)$$

PTO ↓