



BRITISH EMBASSY
BELGRADE

$$N^\varepsilon = \int_T \delta_\varepsilon(f_1(t)) \mathbb{I}_{B_1}(g_1(t)) |\det \nabla f_1(t)| dt$$

$$\text{and } M^\varepsilon = \int_T \delta_\varepsilon(f_2(t)) \mathbb{I}_{B_2}(g_2(t)) |\det \nabla f_2(t)| dt$$

need just moments to be finite here,

i.e. this condition is needed in 2nd half of the proof though.

no you don't
can exchange
int, derivative
as ≥ 0 by future

So exchanging find that:

$$\mathbb{E}[N^\varepsilon M^\varepsilon] = \mathbb{E}$$

$$[N^\varepsilon(T) M^\varepsilon(T)] = \int_{\mathbb{I}} \int_{\mathbb{I}} \int_{\mathbb{R}^N \times \mathbb{R}^{N(N+1)/2} \times B_1 \times \mathbb{R}^N \times \mathbb{R}^{N(N+1)/2} \times B_2}$$

$$\delta_\varepsilon(x_1) \delta_\varepsilon(x_2) |\det \nabla y_1| |\det \nabla y_2|$$

$$\times p_{t_1 t_2}(x_1, \nabla y_1, v_1, x_2, \nabla y_2, v_2) dx_1 dx_2 d\nabla y_1 d\nabla y_2 dv_1 dv_2$$