Fatou $\Rightarrow$ $\mathbb{E}[N_0 M_0] \leq \lim_{\varepsilon \to 0} \mathbb{E} N^\varepsilon M^\varepsilon$

then DCT $\Rightarrow$

need T_1, T_2 disjoint then things are fine!!

$\lim$

$\quad$ anylo

to $\int_{T_1} \int_{T_2} dt_1 dt_2 \int_{B_1 B_2} dv_1 dv_2 \cdots$

$$\int_{\mathbb{R}^{N(N+1)/2}} |\det \nabla y_1| |\det \nabla y_2|$$

$$p_{t_1, t_2}(0, 0, \nabla y_1, \nabla y_2, v_1, v_2)$$

$$d \nabla y_1, d \nabla y_2$$

$p_t(0 | \nabla y, v, SNR)$ is cts!