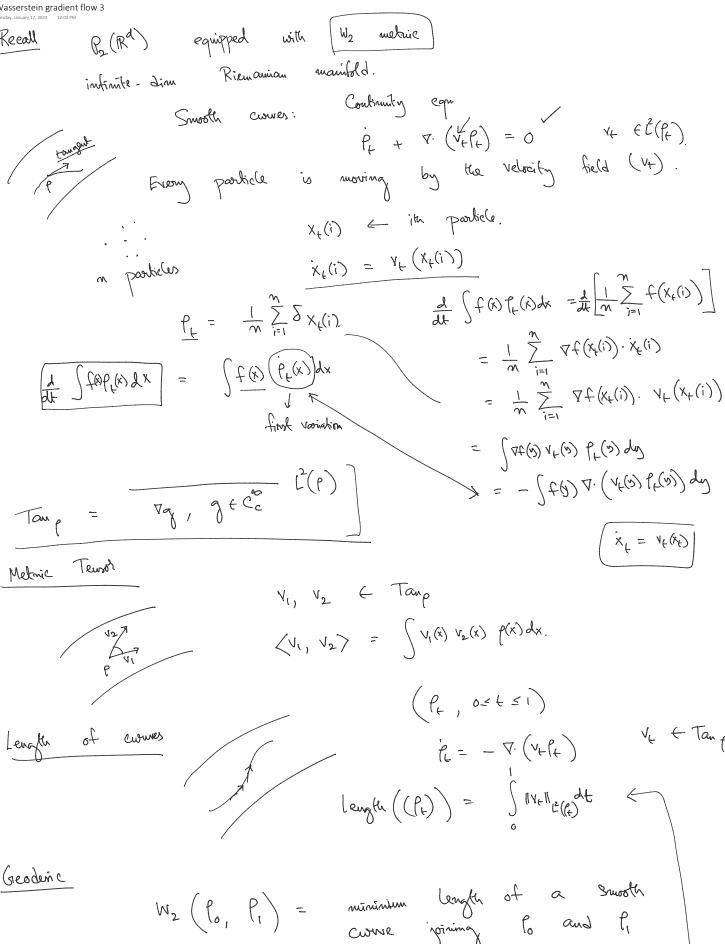
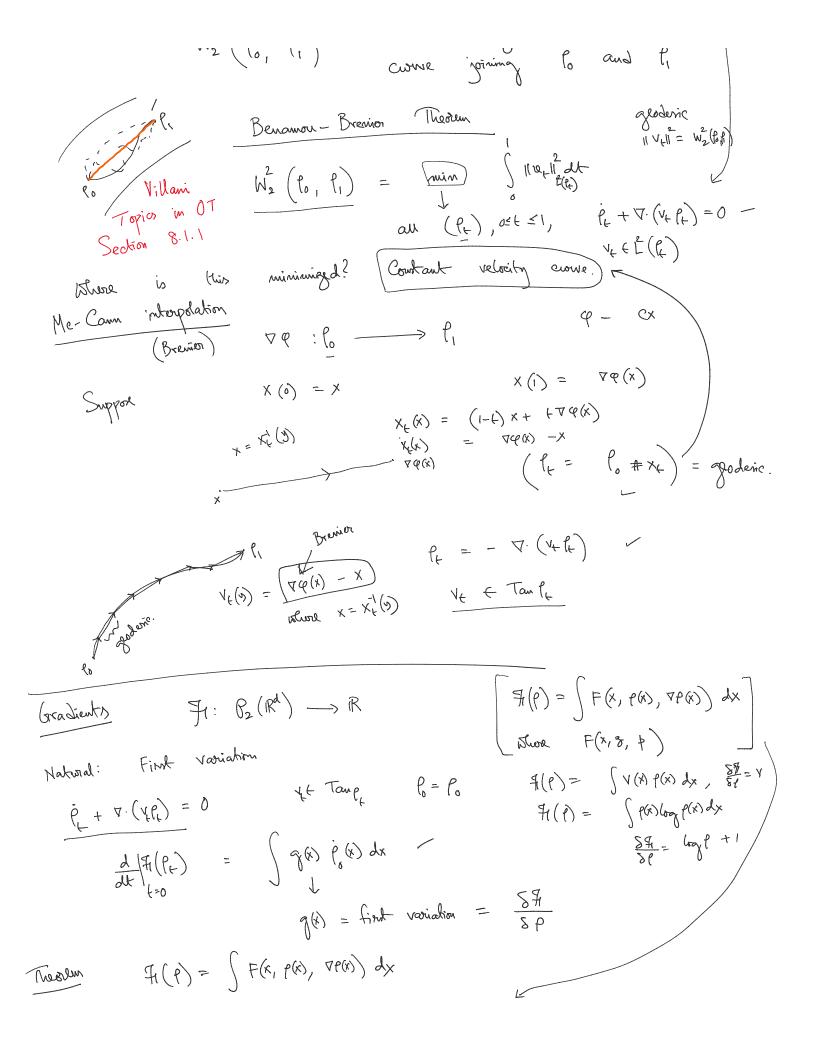
Wasserstein gradient flow 3 Keeall





No. Solvense
$$\sum_{k=1}^{\infty} (x, R(k), \nabla P(k)) - \nabla_{P} F(x, P(k), \nabla P(k))$$

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Jumpier J. $\left(\begin{array}{ccc} P_{k}^{t} & k=0,1,... \end{array}\right)$ Interpolate. Pt = Pu, kI<+ <(++)I T 2T 3T . - . . as I to ? Does this (ft, to) converge Warrentein gradient Flow! Warrenstein Pt + V. (V+ Pt) =0 $\sqrt{\Lambda^{f}} = - \Delta^{x} \left(\frac{26}{24} \right)$ $- \int_{\Gamma} \int_{\Gamma} dr = \Delta \cdot \left(\Delta \left(\frac{2b}{2k} \right) \cdot b^{\frac{1}{2}} \right) .$ $f_1(p) = \operatorname{Ent}(p) = \int_{-\infty}^{\infty} f(x) \log p(x) dx$ → | Pr = 0 6F | Heat equation Go book to Implicit Enler $P_{kH}^{T} = cong_{min} \left[\tilde{H}(P) + \frac{1}{2T} W_{2}^{2}(P, P_{k}) \right]$ g(p) Foe: Seg = 0 $\frac{5\sqrt{7}}{\delta \rho} + \frac{1}{\tau} \frac{\delta}{\delta \rho} \frac{1}{2} W^{2}(\rho, \rho_{k}^{\tau}) \rightarrow \text{duality} \qquad \int \varphi(x) \rho(x) dx + \int \varphi(x) \rho_{k}^{\tau}(x) dx$ q - Kantowich Potential transporting See Santambrogio P -> Pk. Section 8.2 89 + 1 P

$$A\left(\frac{26}{24}\right) + \frac{L}{1} \Delta \phi = 0$$

$$\sqrt{\frac{g}{\lambda}} = -\lambda \left(\frac{gb}{2\lambda} \right)$$

Gradient Flow

$$A^{f} = - \Delta \left(\frac{26}{24} \right)$$

Wans gudat flow

Many other examples

PDE - Waro. grad. flow.

Summary 1. Repeated push-forwards of particles lead to

- 2. Some of these crowers are gad. Flows.
- 3. All there curves can be deroibed by PDEs in the limit of many iteration.