Super Ricci flux - Hum. 02/04/2015. (x,dt,mt), m= etm, m(x)=1, 1ft(n)/30. de(n,4) & eclt-sl.

Vn,4,5,t. All this is the for Wasserstein distances W& for de $\frac{W_{t}(\mu,\nu)}{W_{s}(\mu,\nu)} \leq e^{c^{*}|t-s|} \forall \mu,\nu,s,t.$ It. M= Sn, r= Sy, Choose 9, opt. couplin for ds. Wt (p,v) < \ di (n,y) dq. (n,s) € e 20 | t-sl . { de (n,n) dq. (n,n). $= W_{s}^{2}(\mu,\nu).$ Classic Rein Mochne: 1. 94 (e281t-s). (M,g_t) reading $\Longrightarrow |\partial_t g_t| \le 2C^*g_t$. meler Rice flow. => |Ricge | & eng. on [0,1] XM. anay for Sigular [] To Wasserstein: /2+Wt/ < 20 Wt.

Now comider S: [0,7] × P2 -> (->,00], (t,M) [>> Ent (M/ME) = Ent (M,m) + Sx fe dm.

(h) = lim 2h 5h W2 (mi2h) = 1 Ga(m) da. hipschitz ave M: [0,0] > P. (met. der.)2. 2+ 2(4) = lim my [2(4) - 2(5)]. Det (X,d, Mt) is a super Riccifles. (I) Sin backward dyn convex on (P2, w2) (II) Myn N-Ricci for & backened deprendedly N-comes. yμ, μ'εβ, ∀εε το, τ7 ε. τ. St (μ°) < ∞. St (μ') < ∞. I Winderderic Ma: Vasa". \$\frac{1}{\alpha}\left(\S_4 \left(\mark)\right) + \delta_N \left(\S_4 \left(\mark)\right) - \S_4 \left(\mark)\right] > -1 2 We (M, M) - Cawt (M, M) + [[Sylpot Signi)] (II). a.e. Super Mai for Mare. nd S, En (S+(p)-S+(p)) + DN (S+(p)-S+(p)-S+(p)). > 12 [ws (po, mi) - wr (po, mi)] - (a) (we (po, mi) as + To 15 [St(m) - St(m)] dt.

Commence of time dep mms. J=[0,T]. DI ((x,d,f,m),(x',d,t',m'))+EI. = $\inf \left\{ SSS : \hat{\mathcal{A}}_{i}^{2}(x,y) d_{i}d\hat{m}(x,y) \right\}$ + (SS (fr(n)-fr(y)) d+ dm(n,y). megl (m, m), d = Gl (a, a') } XN = { tome dep mms (X, d, t, m) teloil, all be also buds with c'ond hipselists linds with c'o, & dien & C. xx of (n) lsc, N- Super-Pricki- flus. } The Xn is closed min.t. DI. VNE[1,00].

The XNG= { time depender more with buds (, C", comec, (4, x)) > ff (n); (-hip).

Summy Class of time-dep mins with Vt. -daSt(po) + daSt(pi). > - 12 8 W2 (po, M!). is impact. [Fo. DW =] * to (W? (µ, µ')). Suppr Ricci Jh. Get Ricci (home (hype). is to choose minimal, so there is =? From Lyn. Considy to EVI en. (r,dr), S dyn. Convex, (r,), to Smooth. (M,921 Somm. On Vain whol. Hers & St > 1 gt. lap. TFAE: $\dot{x}_t = -\nabla_t S_t(x_t).$ (II) = 2 ds de (215,7) | 5=+ = Ho(2+). & St(2)-St(26). Y goe o or not to Z, here: Ho(n) = So (1-6) (1) db = S(1-b) g5(x) db.

Consequences of Purp (II):

(III) · d+ df (n e,y+) & O. (<-\frac{1}{N}. |\(\xeta_{+}(n_{e}) - \end{array}) \]

Dynamic correspites:

N- S.R.F.