Maus 01/09/2016 . At Hillow Gun. " a " ruhudd. op in It sit - aat - at a = id. Ex. H= 12 (Rgr) resud Gard, a= dn, a*=n-du. lefine. Li, L. uni m B(H) bo 1. (p)= = { [a*p, a] + [a*, pa] }, * [p)= { [ap, a*] + [a, pa] } Int L= M2L+12 L. (OEAEM).

-> Preeth deform. a surriging of languary. Monthe true-prins maps.

Maps re s.a. ups to xve sept. maps.

tact: I spt. state o (Pro=0) $\sigma = \frac{1}{2} \sum_{i=1}^{n} e^{-\beta n} E_{n}, \quad e^{-\beta} = \frac{\Lambda^{2}}{\hbar \lambda^{2}}$

When En is the assigned proj. out space Ething. Space of Homite poly's.

Pt is welled Quarter O- M schrigging.

Define Ent (plo) = Tr [p(logp-logo)]. to pe P= {8 c nB(H): p>0, Trp=13.

Conjetne (see Histor - lessing - V -? \$ 2016.). Ent (PP10) & e-(M2+2)t. Ent (110). Ape D. The. [lulea - M.] True. The (Carlan-M). Egn- 2+8=19 in the gradient flow of Ent (16). w.r.t. to metric on . P, 2+9=1p=-K(p) DEnt (10). (a) A = 3+ (2 # 20) + (8) X DA= [a,A], D'A= [a,A]. \$ #A = \(\(\e^{\frac{1}{2}} \Reg \) \(\e^{\frac{1}{2}} count on the leg term in The & (p) - " inver Room metric in Sperie of of?" W? (Pa, Pa) = int { [] < 1×(p) At, At > dt : 21+ kp) At = 0} Key identy: [a,p] = Sib si Za, pijs de.

(2)

Note: Commons one denishm: SLABE JA.B+A.HB. J. (An) = Enro Anh-1 DA. Ah. $A^{n-1} P \Rightarrow ... \partial P = \frac{1}{n} \sum_{n=0}^{n-1} p^{1-\frac{n}{n}} \cdot \frac{\partial (p^{n-1})}{\partial n} P^{n} \cdot \frac{\partial (p^{n-1})}{\partial n} P^{n$ · Simple It of geoderic corresity of Ent w. v-t. Wz. (Dolheaux - Nazeret - Sarai). [on R?] ~> Had to know geoclesics, but know heat flow. Suffices to Mrow ENI: 2+ [W2 (~, Pt.P) - W2 (~, P)]. < . Ent (v) - Ent (Pos). It bet . Is he gooding b/w, v and S. Jels + V. Vs =0. Set Pst = PstPs, then, De 8st = 4 D PetPs + Pst de Ps: = V, (+ VR) - V-PS+Vs. = V, (-Pst Vs+ tV Pt).

Wir (v, PtB) & [] | Pst Vs - t \(Pst \) dre ds.

3

= Jos [Pst Vs] dnds - 2+ SS Ps+Vs-tVPst. Tpt. ands -till 17812 dn ds.

Pet Smee -ve. Janen 2 cwep. (1) Ws12 dads - 24 (Ent (Rp)-Ent (N)) W, h, D by geodnic prop. Missic The ff in von-commance settings.
I'm 1974 Props in Pf: D. Dr. - Pr & ind. @ SS IPC+V3/2 dnds . & JJ . 1xp dnds. 1) -> Trace conversity inequality (1th-Petz, hield) (R,S,A)) by Tr [] and A I A dn] is jully coners. Boincully " a2 4 Une coponetial term?