27/02/2015, E. Wilman. heeme 5 1-D hocalisation via L'- 07 (8. Klartag 1/4). letup: (M,9) smooth, connected wifled, goodenially (m), M(n)= 2e(n) d1g(n). 2>0, 2 € c2-The (klartay). Let fel'(M). I fage = o and. Sitt din, no dy ho) 23. The I belomeanable SCM st: (1) \$ Ins = 0 prove. 2) If-halamed loulitation of pls. By v-ac. a, off dpa=0

1-d localism: ACA \$ ~(1)\d=0. (I) VXEAO, Main a "needle" sprid on.

ditt-minimisis geoderic VX: LXCIR-M. (I). { 7 x 3 x & Ao one disjunt. (III) Vd G Do, Mx to fall dt.

Mx = (xx) x [4x 14] dt.

When he ret, relle dempm. Hen Whr. Zult)= 4 (rult) : Jult). nith. Jy snigh., Je yo. in ha. -hos Hels in (Ja) (+17 De (like Ja means) 2 Ricm (rilel, rolle).

In puriodin, If $(M^7, 9, n) \in CO(P, N)$ we $(-\infty, 1) \cup (n, \infty)$. >. (Lx,1.1, 2,x1+1dx) € (0(9,N). "In inequals as font as it can an 26->7strintut is weaenrable, ut mit, detre N. n~y => [n(n)-n(y)] = d(n,y). end ench egissalene dem Evat is ditt minimum, , vel open geodesic. The 1: VI hip n, ohm present the w Sestraintent, ie Ms = In Ma dela). I N- ne. pax sptid on frat. wd (M,9,M) € CD(9,N) ⇒. (raid, M2) € CD(3,N). Feldran-McCann), nederly and Truck) = ra(n)(n).

Feldran-McCann), nee Shitney extern the. Frec's (an) (vin whiting ext) g.t. (Tr, Em) consider. with (n, vn) on smantre ?. For C' fuch, repent Jacobi Calculations, Fo (n,t) = cope (+ Vi (m)). hipsohitz. rend, millo Tent D for. (" by perinface.

Q. Given f, If dp=0, which n to me in the 1.
to yet 1 d. doc A. (fllin Evan-G?) rye musiniger in: was fiftedy; n 1- hip }. Recall. W. (N, N2) = int (d(n, TOO)) dr, (x). = sup s n (dr, - dr2). "If dp=0 = If dp - If dp. have son by , I have some mull. So were inster. In in this prober is kentworth pot. for ot-public basquin ten to Edge. 8min [n]= - 07 -mps. Em Frm No, m each weetle, Stydpa = Stedpa because of mass consumb in of, > Stdma=0. that Maye Kontaronich duality is the ream for L' OT. Perphs 6/c Sfdp=0 is on L' conditu-Note: Ot gives bolaning.

(3)

[2-07:

(1) Shap BM megn. (C-M-S,, S, L-V).

(2) Map Pincard on OD(S,N), 870 [Lett-Villain, Gordono].

(3) On R, Shap isoperimetric, shap BM, etc.

(NOT gave your @ Shap las- Sobolev. on OD(S,N).

(N) > 1. = 1. => (f²lay, f² dp < (N-1)² (1761°dp.

(N) > N.

(1) Shap isoperimetric inequalities in (M', g, p).

(2) Shap Sobolev ineq. on OD(S,N).

Now all of this localizes. Nia L'-OT.