Honda - New Sub. results for supremes.

of m. m. spries with runfun Paris

lds for below. 31/08/2016. M: n-dim got Pein ufed who lie. 2n-1. (or her (N-1, N) ne(1, N). Registry Result. The (Chang, lleyers, hichnessict, et. al.) (1) $\lambda_i(m) > n = \lambda_i(s^n)$. (D) dian M & Th = diam Sh. h(M) & h(sh) = int serious $\frac{11^{n-1}(2s)}{4^n(M)}$.

Chaegris isopunhave of Modern Harrs. meanne. (IT) one Egyphy holds iff. all ex. bulons iff $M \stackrel{ison.}{=} S^n$. The (Bayle, Coldins, Croke, ex. ol.). Effect maidity. (I) 4870 = -8-8/8, n) 70. 12,(m)-n/ <8. > lolium M-TI/ < E. (Changar-lolding)

algh (M, SXX) < 2. 80 x1 X Splow cal suspersion. (II) [dom M-R | < 8 -> | N/M - N/B") | < E -(II) [h(m)-h(sh)] < 8 => 12/1M)-N1 <E.

Mm. (Matei, Valtanta). $(\Gamma) \quad \Delta_{i,p}(M) \gg \lambda_{i,p}(S^n) \quad \forall p \in (i,\infty) .$ 1st re eigenvalue of p-haplacion. (I), the agusty bolds. 'If mis gr. (th). YE70, YDE(AM), F8-8(G,P,N)>0. 84. ((1, p(M) - 1,p(sh)) < 8 => (dim M - x) < 8. B | dram M - T | < € 3. | 1, p (M) - 1, p (8") | < €. Curar work with he Ambrosio; munication: Come a mitted melvombing of all prove them. Main This (Anthresio, H.). VE>0, $\exists S=S(n,E)>0$. 4.t. for $p \in [1,\infty]$.

imputed their δ is inputat that & is inches of p. >> 1 1, p(m) t- 1, p(sn) t < (sn) t < where;

Al, p (M) == . | Indinary Seme

N(M)

Dann

diam M pe (1,2). $\rho = \infty$.

(2)

Key point of Pf:
(1) Compactness of the space. (2) Dispidity for songular sps. (3) Continuity
Errop 1, (2): Keterer, Caralletti-Muelino: Eenhlish all inquessies before for Rep*(N-1,W) Spaces. except for elim y= 7i > 1,p(x)= 1,p(x).
Bdep 2: 3) prove the withing
$(M(N, k, d) \times [a, \infty] \rightarrow (o, \infty].$ $(x, p) \longmapsto (\Lambda, p(x))^{\frac{1}{p}}$
Republik, N) spous into diem . & d.
Step3: Finsh Pt, by connadiction orghent.
Ffrut, hu Fxi & RCO(n-1, n) spun and Friggi & [in]
72>0 8.4. 12, p. (xi)ti- 12, p. (yn) 20.
hur 1/21,8: (x) = 1,5: (8") = 1>0.
by impactness of $\mathcal{M}(N,k,d)$. when $\mathbb{Z}_i \cdot N$. $\mathbb{Z}_i \cdot N$. $\mathbb{Z}_i \cdot N$. $\mathbb{Z}_i \cdot N$.
By whining $P_i \rightarrow P$, $R_i \rightarrow S$. $A_{i,p}(x)^{\frac{1}{2}} = A_{i,p}(S^n)^{\frac{1}{2}}$. hur $A_{i,q}(x)^{\frac{1}{2}} \neq A_{i,q}(S^n)^{\frac{1}{2}}$. (3)