M. Mitrea - hecture 2. 30/07/2015. having the MAN fr. x=0: ICIR" open, hold, I ADR. TFAE: (I) Rj1E VMO(20) = & - vanishing mean ose. (I) YEVMO(22). and 252 is UR. Di Corença-Federer onlind mit venul (veny wealt). (F) Analysis (S) (II) GMT. Kmh. 22 up > C: BMO(2) BMO. (22). nder DR ADR => C: com(an) -> com(an). Ance NNO Con be realized or Elnect "Usmo, there too things imply C: vmo(dn) -> vmo(dn). Robertation is true as well in the faller sens Tidist (R; 1, vmo(2n)) "≈" distance in Bno(2n).

distance in Bno(2n). Cernesot; N. Morlya, M., T. Shorpshinikova. In = Z (AxB(n)) m. . CR". hip. domain, pe (1,00), se (0,1).

 $\begin{cases}
2n = 0 & \text{In } \Omega \\
\text{Tr} \left(\mathcal{J}^{n} u \right) = f_{\mathcal{T}} & \text{in } \partial \Omega \\
\text{Efres | risk m-1} \in B_{m-1+3}^{\text{Pil}} \left(\partial \Omega \right) \\
M = E_{m+1+2+7}^{\text{Pil}} \left(\Omega \right) .
\end{cases}$

Question! le mis problem well-proced? Answer: If d(Axp; vno(s))+dir (v, vno(ss)) is small by the Moreover: this is though - there exist continues amples. Sin & Sex. Sin-Interno } the do me. Sex-exterior of discon the diff. Sin. Sexi. Mypr hulf plane = you have a .

grunted frat you have a .

grand direction. But .

When does fine happen in .

gard? rided local jump condition. Def. or has a two The 3st, Arro, AB.

Are 3st, Arro, AB.

Are 3st, Arro, AB.

Arron, AB. I palm for certain on, me NTA >>. 2 sided Loc. Ao 'DANB(r,n) in a u ven-terpetial " vay (ie, alit. Am IR is rempire. The acm, open, had, an ADR. & L.J.C. Then.

revmo(2n). ([I+. Zizi hi]) compact on LP.

[Ri; Ri] compact on LP.

Think if Rt = RxTR. en this shock. It I'm Ri = 0 and [Ri, Ru] = 0. lu hin Come · N = - I' - and so, mirally NEDMO. Country, If the Orandition holds, from 252=5n-1 or In= plane (n-11-dim. A risrictity there is also has If the rems are small, thin. OA is not four from being Sh-1 or (n-11-plene. L'(Os) - How do you define? Integration by puts formula on the kondeny: 4,4 e Cc(M), j,he {1,..,h}. Sary $(\gamma_j \partial_n - \gamma_n \partial_j)^2$ do = $\int_{-\infty}^{\infty} ((\gamma_n \partial_j - \gamma_j \partial_n) \psi \cdot \psi \, dv$. True for ADR. So, define & f e Li(21), Sant (27ju4)do=. Son fin 4. do. V4ec/c(172h) Drint tangahal din denvahrus! 252 UR => K: 1, (21) -> 1, (22). hdd/. Also, Doin (kf)= k (D tinf) + [Tin, My] Doinf.
CE man. Ma v.

If we know K compact on L? then this and [Tik, My] conjust on L?, this familie gives
Their k compact on L? Flea: Theorem in the frint of David-fermis: YCZ UPS one I told (2) Set is NR. Meplaced hold with cost. But, need to. only winder subject of CZ ops. -> No occurs to expect this to be true for every. CZ p. The SCTR, open, hold, DI ADR, 2 L'TC, $p \in (1, \infty)$. Courieler. $K \in C^{\infty}(\mathbb{R}^n \setminus \{0\})$, even, positive homogenes of deg -n. Fix $\epsilon > 0$. (Tf) == . Pv. Jan 2n-9, v(y)> ((n-y)f(y) do (y). KEBR. for fellos). The 1 FS(E,P, 52,12).>0 A.t.
if diverso(or). (v, vmo(or)).<8.

>> dort (T, Comp (1P(20))) < E.

4

Also, consider. Reco(ar Sof), odd, jus hom deg i-n, (ff)(n) == p.v. Sa [(n-y) f(n) do (y) ne 25. f fe LP(an). Thu, dir (r, vno (82)) & {=>. dist ([T, N,T, Comp (L'(20))) < E. Convenly, if 7,7 yet on 1, for, our $k(2)=\frac{1}{|2|^n}$ and $k(2)=\frac{2i}{|2|^n}$. $1 \le i \le n$. Then, hecemently, revuo(dr). from to put a veryly?. The Opl of Mn. = fell(sa) Where Con. is nell-pund if rCM you, had, IR ADR, SILTC L VEVMO(DI). Passible to replace L'(Dr) wit . L'w (Dr). All CZ ops one Low held for neighted 200. Questing in for Compathen: Yes ___ thois is me.

Kpco, we Ap(81).

3 70 E(0,1) 1 t.

Wo EAp(82).

[L(82), Lwo (82)]0,p = Lv(81).

Bealmemod.

Com k cpct. k held.

Farmy interplate from, Michael (Sweeten)?

opm. interplate Gam to have k compet!

du puticular Lw(32)