M. Mitra: heetwe 3. 38/07/2014.

On the may & neflets.

Meta - the: "M" previous results extend to variable welf-tends.

Ey, b(21,7), (2,2) E R" × (R" 1108), snorn in 2, odd in 2 & por-him. of deg 1-n (1,7).

(tf) (x) = p.v. f b(mn-y)f(y) doly); fell(2n), 2n. 1<p<0.

Then, T: LP(3N) -> LP(3N).

Compactness: SICR you, had, 20 ADR, SILJC.

(74)(n) = P.V. Son binny) (n-y, v(y)> fly) drly).

b hem. from of deg - 11 here, but at before term (b/c my facts in 6, > togethermales it odd).

> Te Cpct (18(2M))

k(n,y) Schmtz Kend, af P. PE OPSOE. => (Tf)(n) == p.v San n(n,y) fly) aboly) Symbols for \$100. held in $p \in G, \infty$). U = classical.

(M,9) c² cpt hadaylan Rein wfed, 9 € C!. E,7 > M. Hominhan v. hurdles & ect. L'E > F, zad order, omsky elliptic. L: W12 (n, E) -> W-1,2 (n, 7) => Fredholm. Anh. We don't comme Lis measurely s.a. Assume L'is invibille of This is not me for.

all aportos, is 2=DH., Hodge-haplace.

On that come, AH has surpre lartiman.

Spargery, So carrier AH- O Cophing. (and) Nfo. 50, com reducer to institute come. L': W-1,2(M) -> W1,2(M). E(9,4): - the soluments beared of L' & E lavider: (TP)(x) := { \ \n, y \ (n, y), fby)> doly). L(Tt) = 0 in si, 4f:227E. This will be "wire" (not necessarily co since inchiecs. we c') away from diagonal.

Apr ~> E. Sch. Hend of Apr-V. g = gju driodni, tren, $E(n,y) = e_0(n,n-y) + e_1(\log y)$. $e_0(n,T) = \int_{-\infty}^{\infty} g^{n}(n) \cdot (2; \sqrt{2n}) \cdot \int_{-\infty}^{\infty} e^{-n-2} dx$ (e,(n,y)) & & (n-3+&). (Psurele +). Y 270. 11 W (J+) 11 & c 11 +11 (on). He e (on). (7f) | not = we ssy. ("Y" matters, ie in Vy
in (ff) (n) formula (Tf)(n) = Sost (T, E(n, 5), fly)) do-ly). a oth order. Apr L = DO+Q, De D Arts weer. va B-W. ALB= -dw grd, $\Delta_{H} = -\nabla^{*}\nabla + \text{Ric}$. Than, mel his assuption: $\nabla_{y} = (-i) Sym (D^{T}, v_{y}) \widetilde{D}_{y}^{T}$. => (Dff)(n) := for (1-i) hym (DT, Vy) Dy E(n, y), fly) Idolog). real. $(Pf)|_{\partial\Omega}^{n\cdot t\cdot} = (\frac{1}{2}I + k)f, 6-\alpha \cdot e. \quad m \partial\Omega,$ $4 \in L^{p}(\partial\Omega), \quad |P| < \infty.$

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(K &) (n) := P.V ((i) Myn (i) syly)) Dy (7 (n,4), Lly)> moder SCH, open, DR ADR & UR. The L, I us above; L= DD+Q. Associated with the grain-factorisation, consider. Dad k as above. Then, 1(Qt)=0 i~ 1, V+cl(2s). (I) . |W (DA) | Le(On) & | Lell_e(On) (IT) · K E & (LP(2n)) (m). REL(L',(20)). (A) $(Df)|_{\partial\Omega} = (2I+k)f$ $\forall f \in \mathcal{C}(\partial R).$ (I) UW(VOF) 11 P(ON) & 11/11 L'(ON). · So 100f) (n) 12 diet (n, 20) drol(n). Ser funt 5 (-1812 do. (prania) J. (VII). 25p<0. du fredu (mi fr (IV) (Of) Pain (n, 2a) dv (k) Coulm men if te Bno(2n).

 $\left(\cdot \right)$

(X). DTmy (uf) = k(DTmy). + CT,My](DTmy). € Li(dr). (x) If kis impartised v ∈ VMO(dr). > Kis Cpet on L'((ar). The p.v. double larger associated with the. history of A:= - TAT + Ric down hime the olyphimic bruchen which quinombers Conjactnost in L'62)

Routh. Take backgrid metric & perhabit (St)(n) := San (E(n,y), f(y)). do(y). Ren. Since dayer potential. (3f) | n.t. = (3f) (2) ne 32. um Sflor= for (E(n,4), fly)> doly). The 201. S: L(2n) -> L,(2n), but carr exhart lempar part & Asizula par (±1+le)
ar in the DA care. a hip domain in Pa, keco (1701/803). Szak (n-4) & by) do (b) = Su(bn', 4 (n)) - (y', 4'(y))) f(s').

(5)

((n'-y', ((n') - ((y'))) (D4) (n') (n'-y') + em. Apo fulm TYEL NINO., then, (if) (n') = p.v. S k (n'-y', (D4) (n'-y')) f(y') dy! remi. Then, TEOP (20 NMO) Sal OPX Sce 1100 08 a(n, 3) 1 2 2 35m-181 Meren , Term (for con tem),: I'(B) -> 2°(B) is Conjust YBCR"! So, we can diseurs puller module Conjout.
Operates and OP (100 Novo) See is an algebra. O(T) => Sumbul of T#, The, The If o(r) ellips, In T: l'(20) > l'(20). in (happen if a lidel hip-dom nih rEVMO(2a)). dinnel layer potanted fit this picket. (afor taling deminen of simple lans pot).

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