W. Mitran. São + FDo.

takes - Journe - Réverser.

PI An=0, n/a=fell(32),

From it  $n \in C^{\infty}(S^2)$ , what dues mbox man? its defined on  $S^2$ , and  $\overline{S}^2$ .

nba men nen-tergulially,

The Third  $m_{2n}$  in  $m_{2n}$   $m_{2n}$ 

So, full fimilation of P, need to add. Nne [On).

where. Unby= . I'm II ( T(x)).

Another mobilen: An=orin in s. note = felicar)

So all not only Nn el (22)

but also W(Vn) El (DEK).

There we well-pund  $\forall p \in (1,\infty)$ . if  $\Omega \subset \mathbb{R}^n$ . held C-domain.

Cluber followed las Dallhern: (Dg)(n)= il (n-4, v(y)) qy) doly). nos. 9:22->TR. Cordidate: n=Dg, ahne g TBA. 11 W (29) 11 p(an) : < 11911 p(an). (29) | = (1 t + h) g o- n.e. m 22. (kg)(n):= p.v.  $\frac{1}{w_{n-1}}\int_{\partial\Omega}\frac{(n-u, v(u))}{(n-u)^n}g(u)d\sigma(u), near.$ Do, Sohrahility:  $N = \emptyset$  (( $\{1+k\}$ ) gran initial datum & ELP(2.2). So, Q: ({\frac{1}{2\text{I+h}}}' \est(\frac{1}{2\text{I}})}}; K=. Zizi RjM Vj.  $\mathcal{F}(R;g)(n) = p. v. \left(\frac{1}{N_{n-1}}\right) \left\{ \frac{2i-yi}{2n(2n-y)^n} \cdot g(q) \right\} do(y).$ Deis - Mufan. Q. Ri had m L (31)? K; (7) = Zi allo autol fremls. ke (0 (172 163), odd, throughouth in burdons! (2) | & 17 | -n - 1x1. Yx EN. (2)

G. Parrid / 8. Semmes 1991:

All above . SIO's hald on 12 (212).

All above . SIO's hald on 12 (212).

When halomore is allowed that 252 is ADR (Alfordia - Parid veg).

ADR meas: 22 citt ven, 252 ADR meas Vn & 252, V ve (0, diam 1).

And (2120 B(2, v)) & vn-1.

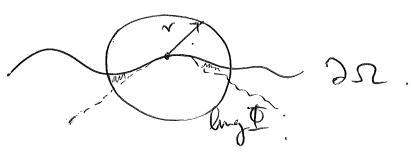
Te. (21,1,-1,5=H^1L2si)

quee of homo genur type. (SHT).

Defe 25 in MR edy  $\Phi_{\Sigma,M}>0$ .

At.  $\forall n \in \Omega$ .  $\forall r \in (0, \text{diam } \partial \Omega)$ .  $\exists \Phi: \mathcal{B}_{r}^{n-1} \subset \mathbb{R}^{n'}$  hip solute with hip  $(\Phi) \leq M$ .

with such that:  $\mathcal{A}^{n-1}(\partial \Omega \cap \mathcal{B}(r,V) \cap \Phi(\mathcal{B}^{n-1})) \geq \mathcal{E}_{V}^{n-1}.$ 



Bodeness of Rij 7=4,..., n => MR.

The: 4270,  $(R_{3,2},9)(n) := \int \frac{|n_{3}-n_{3}|}{|n-n_{3}|} g(n) d\sigma \log n$ .

15 hdd in  $L^{2}(3n)$ ,  $y \in 3n$  minfully in E := 3n elle.

[S. Hofnam, M., M. Taylor]: Der in  $nR \Rightarrow \lim_{n \to \infty} (T_n g)(n)$ . exist  $\sigma - \alpha \cdot e$ . fr my TE muched SIO. Knuly blungs hickoryed askruption that DI is ADR. Harry, Dind-Sermer result does not say that Rj exits in P.V. Sense, but just that Rj, E. exist with hand inelep of E.  $\partial \Omega \ ADR, \ \forall \forall e(0,1), \ R_i : \mathcal{C}(\partial \Omega) \rightarrow (\mathcal{C}(\partial \Omega))^{*}.$ < Rif, 9> = - 1 [ mi-yi [f(n)gh) - fly)gh)] do (a) do by). MVTh: Danc (Da). Q.  $d \in (0,1)$  and  $d \neq 8$ .  $k_j 1 \in C^{\infty}(2n)$  (2n) (Yes. joint W. Donna Milrea & J. Verdera. Thin. (MMV). D.S. ADR. (and Am'(Dalder) = 0.)
FIX x & (OA). Kehnical ass. (I) Ril ECM(IR). (I) R; (d(asi) -> (d(asi) had (II) odd, hom. in IR". (Tpf) (n) := piv Jan-yin-1+deglo). fly) doly). ne 20.

(4) . It is a chox domain. A. hoch at diffed alg. e, -, en, e; = -1, ti, e; ben = -en oes, Vifle. Man = (n,,-, 7u) = Z ries & det. ((w) Ofla). 12. Par.  $\int \frac{x-y}{|x-y|^n} O v(y) O f(y) d v(y)$ .  $\Rightarrow$ ,  $N = \frac{1}{4} \subset \left( \sum_{j=1}^{n} R_{j}(1)e_{j} \right)$ . Point or Indep of meg of so, Cf: C > CX, Son of Ry (1) & CT, then Ziel Ry (1) es & Cd. and cf: cx > cx so NECx. 52 h.f.P, fra schip & Fine co (ON).
12 exim (In, N) Eliso. mar. I c'domain €. V € C° (IA),

mutub li=Vir

si d'a don => NE CX (2s).

(5)

