Order nam I henry. herbre 2 19/05/2015. Recall: (X, T,S) X - method space, or-premierance on EEIE. S- type S(R,E). outer meene p on. all Sets. ~> [(x 10, s). (smand r)). L', x (x, 5,5) (weak L). But gaari- would - no exact travele inequality. Am: evanuate. P(Tt)(n,t) = \$ \$ \frac{1}{2} \f Mrs. (outer Marcineienicz) het 13P. <P2 500 and assume bondedness $T: L^{2}(Y_{3}v) \longrightarrow L^{2,\infty}(x,\tau,S).$ T: L2(Y,v) \rightarrow L2, \(\infty, \sigma, \) anter, weak. Share. |T(17) = |17(f) and. 17(++9) | € C(17+1 + |T9|) $T: L(X, Y) \to L(X, T, S). \quad -\frac{1}{2} \quad l_1 < l < l_2.$

Pt. Take $f \in L^1(Y, v)$ s.t. $f \in f_1 + d_2$, $f_i \in L^1(Y, v)$.

(This is me since I'm cloussical!).

Llim M(SA) × 1) < M(SA) > 1) + M(SA2) > 1).

out untsup x/F; Stifi) < 1 and M(Fi) < M(S(Thi)>1) + 8.

outsup $S(TR) = \sup_{E} S(TR) 1_{X,F}(E)$. $S(TR) 1_{X,F}(E) + \sup_{E} S(TR) 1_{X,F}(E)$. $S(TR) 1_{X,F}(E) + \sup_{E} S(TR) 1_{X,F}(E)$.

(Some INIF & INIFi.

< 2c'3.

So, n(s(TE)>A). E M(F) = M(F,) + M(F2) < ...

 $||Tf||_{L^{2}(x,r,s)}^{p} \approx \int_{0}^{\infty} \lambda^{r} h(\delta(Tf) \times \lambda) d\lambda$. $\leq \int_{0}^{\infty} \lambda^{r} h(\delta(Tf) \times \lambda) d\lambda + \int_{0}^{\infty} \lambda^{r} h(\delta(Tf_{2}) \times \lambda) d\lambda$. $\leq \int_{0}^{\infty} \lambda^{r} h(\delta(Tf_{1}) \times \lambda) d\lambda + \int_{0}^{\infty} \lambda^{r} h(\delta(Tf_{2}) \times \lambda) d\lambda$. $\leq \int_{0}^{\infty} \lambda^{r} h(\delta(Tf_{1}) \times \lambda) d\lambda + \int_{0}^{\infty} \lambda^{r} h(\delta(Tf_{2}) \times \lambda) d\lambda$.

Tolu f. = f. 1/1/2 ; f2 = f. 1/4/37

E Sar ITHIR and (no 1-1-) + San (no 1-1-)

physics rule. JPPP, 5. (de 14/ (14/ P-0)) dx + (, 14/2 (14/ P2) dr. L. (Itil dr Conleson Finledding the Asme : N = Careleson measure in The, i.e., N(E) ≤ c.t = c o(E). Want to prove 11THILP(RE, v) & If ILP (TR, dm). H (1) . 11-8/12 (R2, N) = 1178/12(R2, 5,50) Te, thre is no one menting start dominatory, the Commenters sawings (x) who, say, c=1, land home is in inter means 5. ~ (Sx(T4)>A) = mf (r(F): my Sx((T4)1R2/F, E) < 15

HTPHLOURELF) SA.

large faut!

= ~ ({(n,t): 1781 > A}). [] . ||TP||_L(R,7,500) 5 ||T+||_L(R,5,500). 3). 1178 11 (102+,0,500) < 11811 (17). 1<p<0. by propulation. To, P=0: | Tf(n,t) | < | + φ(±) || , · || || , ∞. < 11411/1 p=1: Need M(Som (74)>1) & 1/4 |14|1 D= {n: M+>1} CR, M- H-L. Muso fucho. = . Vi (ni-bi, ni+bi). F=Vi T(ni,ti))intom! If (xx) EFC => . I y E (n-1, x++); (Mof)(y) < 1. outenfre Som (TK) = une Som (TK. Apr , E). = enfe 1741. 2. c nf(y) < 1.

1

1 11/1 = M(+(n,+1)) = 121.

Para product many Sz.

Am: Estimule.

to Pr(R) x LPr(R) x LPs(R) -> 4.

(P, , f, , P,) -> (P, f,) · (P, f) · (P, f) · (P, f) · (P, f)

$$T_i(\cdot) = \frac{1}{t} Q_i(\frac{1}{t}) * (\cdot)$$

Kerny (4,=0= 542.

$$T = \prod_{T \in A} + \prod_{T \in A} + \prod_{m \neq T} + \prod_{m \neq T} + \prod_{T \in A} +$$

 $\int f(\pi_{T(2)}^{+}g) dm \sim \Delta(f, T(1))f) = \infty \text{ Candlern}$ $\int f(\pi_{T(2)}g) dm \sim \Delta(g, T(1))f) = 0.$ $\int f(\pi_{T(2)}g) dm \sim \Delta(f, g, m).$

Steep 1:

(A(f, f, f3) \ \ 1) (1, f1) (T2 f2) · (T3 f3) 11 i'(R2, 5, 8,).

S, (P, E) := TE) SE HI don't

Pt. Need | Sg dmdt | & Ng 11 L(M2, 5, 5, 5).

So M (S, 9) A) ds.

 $\overset{\sim}{\simeq} \underbrace{\sum_{n} 2^{n} \underbrace{n \left(S, 9 > 2^{n}\right)}_{\simeq} \cdot \underbrace{+ \cdots}_{\sim}$

where outherfre 8,9 & 22.

Fu C. V. Fi , ∑ 5(En) ≤ 2 M (Fu).

| Signal | Sint (The State of State of State of the stat

(f)