23/01/2014. J. Mar. Ruple het to At = Riso. Then, De A2 = Acher Acht 2.13 = 12/16/+ A+16/1+ + 16/12. Exercise: 1+8++ = ? Enmyly gradient flens on non-comme pohability. (I) Too views on bout flow · L2-them: = Gauss spice L2(R", Y) - Donahlet energy Er(2) = (17212 dor. > Grad flow for Er in 12 (TE, 7) is the Ornstein - When lech ex. 22 = - 12. -12 (n)= △2(n)-(x, √2 (n)). · OT - theny: - 2-wass. space (p(PP), Wz). - Rel army. Entr(n)=+ I plag sodr f=dr. -> had flow of Entry w.r.t. to We in the Source. (I) Quarter - Mech pt of view; (m 2° CR2)).

. Ino publis - kosmand famium, toot with My symm. prejeties. We look at.

Fayn = (R) sin. hynneliz Fock spice. to accur for appliabilition / careabi

· Wiener: ranonical Bonety: I: L'(TK, Y) > Faym.

Definite pelymentals over done in 1'(TK, Y),

but Stands by the fit of Herrite pay. Hm, (21) - Hmy (sen) 1 -> Psym(ein a ... oen m) propulsion to sym turns. {eis and havi for R. ei = @i&ei & ... & ei mi times. " W= I . Lo I' is the bosonic number, operator. Us = mg - # YSE (R") omm. (III) Fernonic anterport. · Fayon = (P) (P) (anti-eyon. tousons). = (R) /m by outi-sym. · Famionic neuder opender: US=ng for 3 c (RT) m. thre exists a centerput, but fin time, weed to much out of openetrs (matrices) rather than fuchm. Det let Q.,..., Qn he self-adjunt operation on a Hilbert Gace substym : it is QiQ; = - QiQi offiniQi = I.

The cliffed blychm is given his Char punsain and dicto, 25% (2)

· Famionic Wever isometry: I: They Qx -> Pains. 0--- 0 e. 00xn) Payon mycom into 0 Rem. Anti-sym value of femins mens you cannot expect scaled. (I) Analysis on. C. (1) N.C. integration, def T: 2">4 lars. T(Qx) = 1 0 otherik. T i a true; postere liner frinchoul 8.6.

T(AB)= T(BA). 7 induer a scalar product on C: (A,B) = T(AB). (2). N.C. analogue of differentiation; define $\delta_i: \mathcal{E} \to \mathcal{C}$ by $\delta_i A = \frac{1}{2}(Q_i A - T(A)Q_i)$. (almost committee). where. T(Qe)= (-1)1x1 Qx (because its really an outs-counter). Define E: <> = , E (A,B) = 5, <>, d; A, d; B>. > The penter associated to E is the number opender. E(A,B) = 2 < LA,B> VA,B, L= T'ONOI. Cross 175, Conter-hich 193: Fermionic Log-Soholer inequality. TIMA Log (AMA)) & 2. E(A,A), NAEC Clarric Loy- Sob. ∫ f²leg f² dr ≤ 2 ∫ NH²dr, y f≥0 ∫ f²dr=1.

3

Q. Is twen a norm of Warrantin? Uninc log- Gob- oan be proved were were -hospit. lef. lub P= {PEEn: T(P)=1, PZ0} Po, J, ∈ P; defore W(D, A)² = inf { [\$\frac{1}{2}\]} = 0.12. to P, JEP; define (layere inthe B-B familie: fr Je, S, E P(D)); W2 (Po; Pi) = inf } j' fine 172e(u) 12 d St (u) d b d d . 28+ V. (802)=0, Azo, 28,13. Muliplication is non-aumentire hore, So βοΔ := β' Π(g)'-«Ap« d». (3). The [Carles- M.]. The Somowic O.M. eq. 20 3 = - Lo is the gradient Sleves of the Newson whopy Ent (P) = T (Plag P) why (4) ? Amp: Yp = Po d, log P. Park to exercise. Let the Age The sym. of A" = I An. D. A. A. A. A. Vn

I Reper Mut Re= (Pt) in for auxiliary >0. $\partial_t \beta_t = \sum_{k=0}^{n-1} \beta_k k_n \int_t (\beta_n^{-1} - \beta_k) - \beta_k^{-1} \frac{k_T!}{n!}$ = 1 Zu=0 1 wh (pin-1), pl - man Silt of leg St. Pt da @

=>), ente. = \(\) ext. A, e(1-x) to dr.

In the proons of person to Count, we have a care It so not then define former. At = (Pi), so that we can apply Counter. It I At. Then, we obtain an express.

The It At. Then, we obtain an express.

The At. The CAKS here n, and It's is independent of n. Chat's May we can pass to limit.

Ros the meletying thehr space of he where they rute: the meletying thehr space of his simply. The Q: can have door our meters In is simply. An expression, bur cannot we always our.

when I charges who A changes. Fo I can be phonyhor of as a neptertulm.