TODAY! POP taks

· Kyle HWID BC 24

· Segio らえく

· Tommy · Christc. HW1b 1 HWIL 3

4W16 (2.1) + BC · d-ho Lee

NEXT WE: OCT IF

WHAT IS THE HOF GREP · Michael W.

· Shiresh R. WHAT TO EXPECT from TA'MY A LAB

· Medhanie E. HOW TO ACCESS UBRAPY RESOURCES off OWALS

WHAT KIND OF SCIENCE OUTBEACH ONLY YOU DO?

· Mehmet K. · Cameron R. WHAT DOES THE GRAD GOLDENT PESCURCE

CENTER offer for PMS ? ASKO ETVORAG?

INDEX CAPO :

· something you liked about talks

· something you want to avoid in

AWESOME/JARGON CARDS

if time

INNER PRODUCT / DOT PRODUCT / METRIC :

g(x, w) = # CPTTS OUT #

such that: Imear in each argument 2 (ax + Bx, ' 8m + 2m,) = 48 2(x'm) + 42 2(x'm,) + ---

ELECUM: Shumetix: d(r'm) = d(m'x)

in indices:

8 = 3ii (il 8 (i)

g(x, m) = gis viws

(811/m) (1/m) (VK) (W1/0>)

= gij VKW & Six Si

= gisvimi

Glot & Glot assert

four organis encribem esses

815 = (''...)

in Minkanski space-time: minus sign

in Educacal coordinates: it's rald.

OBJERUE: Metric-with-on argument-pre-loaded

g(Y, L): takes vector, soits out H, linear

this is exactly what a row vector is!

g(v, L) = gis Vi (i)

Remarks:

generalise to complex #'s

RATHER THAN IBNGPOSE, HERMITIAN CONJUGATE

<×1 ~ 1×>+

" tronspace, compler conj"

t: 1x> -> <x.0>

ioner product wer piff notation Fee g(v,w) - (v,w)

"USVQ/"

Puzzle: what is the inner product

on function space?

(so for movefunctions)

Pint: <x . x> = <x |x> = ||x||_s