Семинар N°9 Ивазипеней ное зравнение переноса

PRADUTOBATE UNDER BATURHYND (XEMY DA SPABHERNIA MERCHOCA. (XEAGUNUH.) DECNE UNAXOTO CHOR CDENATE OTPUCOBUS PEWERUS. ROCFECTE CREATOR YOUSE (1e-6) ( proma +10+)

YAA34MUA: 3684TG (C=1)

Chreserate 4 = (xouncte)

3-3 JOHN : JERDEN BLIBED AHMORD

EXEMA II- FO NO PADINA SCHAZANANO HETCTORUNA.

garme:

 $\frac{\partial u}{\partial t} = uuxx + f$   $\frac{\partial uu}{\partial t} = uuxx + f$   $\frac{\partial uu}{\partial t} = uuxx + f$   $\frac{\partial uu}{\partial t} = uuxx + f$   $\frac{\partial u}{\partial t} = uuxx + f$ 

du = nu+f a = u + ~w (E-37Fu)W=F | ROS B DAMHON CASHAE: (E-381) = - NU+ F (E-3TA) (Q-4) = 7 AT + ] Q-4= 3~1 (Q-4) + ~n4+ F a-4= 21a+ (1-8)14+f. Q-11 - AU+ F SBHAS CREWA a-w - na +f HERGHAR CXEMA a-u = 1 u+a + f crema PAROCEATOCA, WALL CHENTP BALLOCT !

HA SCTARHUBOCTE

tenfa #

TO

100

1

1

**注:** 100

THE REAL PROPERTY.

Neugus Noto MHOTOMEPHAR Tenjoneored HOCTE) PACUTA HAD OWN CHAMUS CM. PPERED CTPAHULY. Z-D TENDENPOBODITOCTO B TERMOSTARHUNE Da = Kx 2x2 + Ky 277 + f(x, 9, +) CLX = a , oly < B, oct < T -U((1, 1, +) = 4, (8, +), U(a, 1, +) = Mr(y, +) U(x,e,t) = uz(x,t), U(x, 8, t) = 44 (x,t), 4 (x, y, e) = M(x, y). CETUA: EXH, JM, OSNEN, OSWEMY hx = const, hg = const lum = U(xn, ym, +)7 886 OMERATORES NPOCTE JAPPPREHY: (1x u) nm = Kx un-1,m - zunm + un+1,m 1 10 Un, m-1 - 7 Climin + 4 in, m+1 (Ay U) nm = Ky 0

Uchone Tyen Moted ARAMUX: dum = ((1x + ny) ulum + fum Amproucumayus O (by + by) U CHORUSSEM OSMOCTASMITTURE CXEARS PASENCPONA (E- 22 (1x+1y)) = (1x+1) AMARCHUMERO 1-6 MEXICO BARNEATU CXENA COCCAMO a-4 = (1x+1x) (12 + (1-2) 1)+ US A - SCEDE GUBOCTH ( = 1) =) =) 6 E3 Y CHARMAR Y CTOH MUBOCTE Trydreasure 76 } ANS 1-D MATFUYA E-LTA TYXXXUATOMANGIAL, 1-4- 3 E ELIMETE DUAFOMANG .. A - Trexperiences 1. UBLICFACTER WULLDAY POPPELLE new nevexose and enel casa B PACHETE HA 1 47CA CETHU ITEN CXEMA THOMOMERUMA CEAM TAUTE MUCAO PREPALUA - O(4)

SIGHAN CKEMA: TO WE STUM STUM THE WAT HAVE N - - WATER =) P(N) -) HET BUTHEMHUHECTLE

## ( Kens & BECAMO

AND PECHETA MATRULY WOW PRODUCE BELTETUBATE B BEUTOL, ETROWA 32 CTPENTA, TOTAL MATERYA CHEVATORA DX + MY HE OBJEC TPEND-LAROHAN (HOY

ED & HOT CAPEL DENTORMAN DULINA G CTROLL GENT BEOTO S HEMSE VA-T-B

TO THE UNCLA TOTTALLIA HA THEN Y3EA- ~ N= =) FIC SUPHERICUMA.

FIR30 - EUR KERE MI - OUM STEN ~ NY DITERAGUE.

& BEIRDS - PAUTOPHBANNA

3 BONN WHOMMAS L - PAUTOPHEAULIE

GEREN "CHENY CHENYCY UMEG":

E-=1) 1-1 = 14 + f(x, 4, +, +-3)

N= Nx + Ny + NZ

BAMEHREM (E-=1)=(E-=1)(E-=1) · (E-= 1x) + 0(+1) REJETBUTEALHO (E-=1)(E-=1)(E-=1x)= = E - = ( /x + / n + / 2) + = ( / y/x + 1 x 1 x + 1 x 1 x ) - 2 1 x 1 x 1 x = = E - = 1 + 0 (23) -1 TAURY EXPEND MET HE HAPTWING AMPROUCHMASIN.

300

100

2

2.55

535

3

31

JI.

力

91

1

2

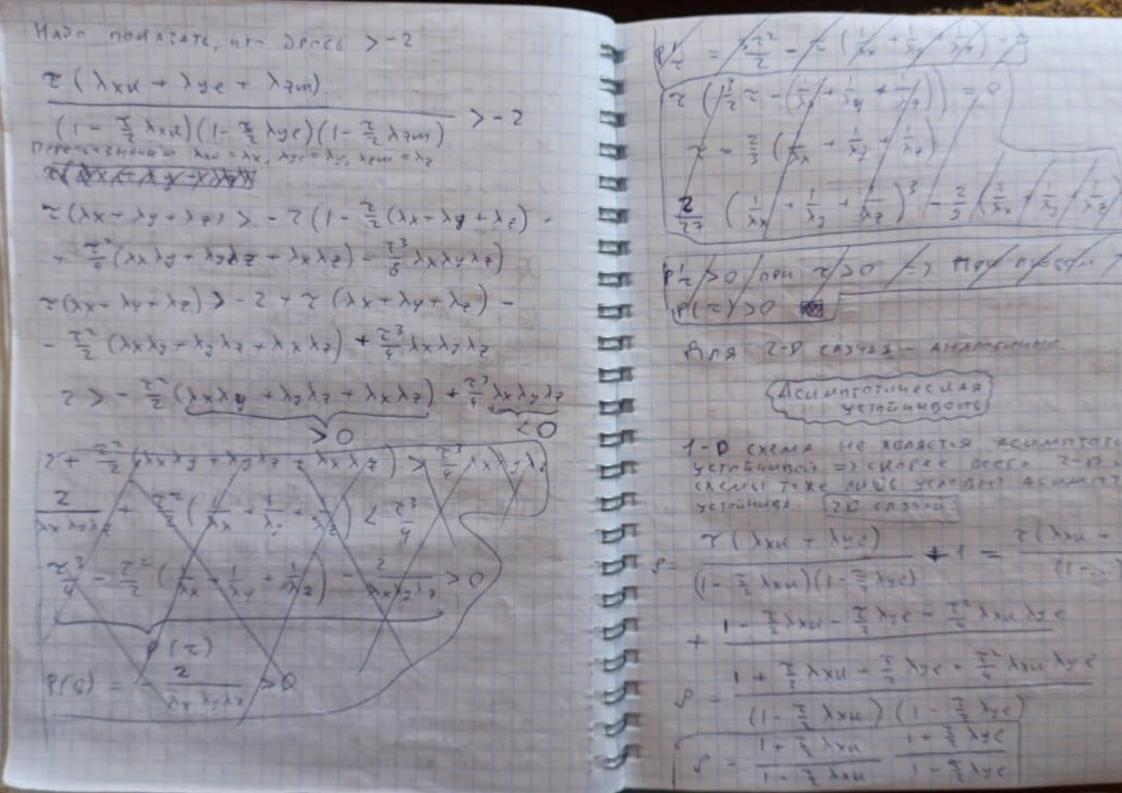
(E- = N+) (E- = Ny) (E- = Nx) -= NU + + (x, y, 7, + + =) N = NX + Ng + Nz

CHOOTUS" METOD

a-4 = Au ECAN U- C.F. A X - C.3 Au= hu Q = ger, p = men x pretty dra

M gu-u = xu 9-1 = X 8=4+2h RON XHO GOITG SICT -161+ 2261 11+ 2/ <1 SOM -26 2 X 20 200 PASHUMA B TAR , 450 BULLETO - 1 PEZKH HA BLE CNYHAU YUTHU 535 HADE GRATE CECTBEHHOLE PXHUGUY CHEERTORE US HEADER HACTUI ( WAL - 15 WELL-LU STALLE LE CALL C 3434400) 175 U FACETATE UNEHRO + HUMU. roff. B HAWEN C NYHAC (3-P): 77 Uklin (x, y, z) = cin Tiky sin Teysin This 勿 on KECI; MY -1) REC1: Mg-13 off WECA; NZ -1) C. Q. MONTUARTED MEDUTRESEMBLE SI MENERHOLK 5 francisco attalin or consideration J XXU = - 42 SIN ZINX 5

Aye = - and sing I'm × 7 m = - 4 82 5100 200 se + unipp renimprosession A unem = Axunem + Ajuvene+A = xxull + xxell + xxmll = (xxm-x A XIENANCE XXXXXXX (モーラハを)(モーラハッ)(モーラハ×)以二 = (xxx + hye = hym) U (E- = 1x) U= U- - 1xu 4 = (+ = xxu) a (1- = x7m) (1- = xye) (1- = xxu) = (xxx + xye + xzm) (1) 8-1+ 2 xxx + xxx - x = - x = -(1-3×10)(1-3×10)(1-3 PAPER BERESA WEIGHT XII TENSINE, 7 I WANTHATTAL ACTION DENNY IT IT IS UTTERMAN, A MERCHET COME - OFFICE 170 THE XX PRESIDENCE



CEMMENT Nº10 MOYHO BAMEHITE PARMICTU DIPOUTE, Denseurs evuedos & 2-3 meradua, n.e. SARMENUE TENNENPEROJHECTU SET NOTEL MOTER WA AMPROVENIE -911 Vr. = (E - ZK 32) 0-4 ] FC. COL CXCMA CNI WX XCAXXX O=U+ = Rew проста весты почто DI WIR = ((E - = N 3 - - = N 3x - ) 1 - 1 ) 18 (E-371x) W = 1x4+ + DI D Y 114( F = 0 CREMA GREET POR TAKEN 1- P. SHUGE. D. PANTULE HOLE e contra a YEARBURY ANDROVE O (TT + 42) DI mandarea E LICUEN-1 Ax. CLOCKE HA Z-D HE WANTURETES. JERGBUR GURUXA 13 U0 = 01 IX B ULCTHACTU UO = UO UN = UN Ana Henderpodnou chegal al TIE. TRADERUX USTPRILL HA HERABHELL ERTUR BANGUERS Y CAOBUS HERMANA (1x4) = = 2 (Ku+1 Ku+1 - 4n (PHUTUS HELE TOUW!) negereaved Ux =0 TO B U, = U-1 : UN = UN+1 TES (Ax/0=4-1-241-41= = 2 (-41-41) TL 3 IN CHEEN BY CHIP: MAY, 7 在海 a-a PARE COPER O MENTER (Ax)N = UN-1-7 UN 7 UN-1 = 3 (- UN + UL-1) TEST. SUEGUH. 123 HET HOPMANLUNGTO DULATOMANGHERS THE INPERCADAMEN X