	BY BAEZ TOUN		
uec 14: understag	DIINO EURREMIZ	200.	2 MAR.
EINSTEIN EQ	Rpv - ZRgy	= 811G	
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	Gw	the origin	tions for
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motivated by	Maxwell's e	<i>98</i>	
more complic	ated mor	e indice	£.
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ALSO MORE O	AMPLICATES -	n menummo siiza isimu siimusiisii siimusiisii NKT-11A	iv=AR
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@mplete	y different	ream	Em (au
		en de la companya de	و المرابعة المستقدين والمرابع والمرابع المرابع المرابع المرابع والمرابعة المستقد المستقد المستقد المرابعة والم
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AC Q	(x) = - \psi \psi \chi_{\si}	t et till gjalle klitik i milit er en	t to green appear for the second and the second of the
uuttito utatatoo tuuluuttiisa siisen sii uu omo siinaamma la 🕻 muutoosaana manna (asaga) namena lavera esercia esercia esercia est a de la comunidad de la comunidad de la comunid	en no en en en en en en el en el el empleo de la constitución de la entre en el el entre en el entre en en en	e ne paginama y memorangan si mepulakan si ne pisimpanam nemerong i samunak kalam nemerakan
		AA	
anning and the second s	generally:		
		NEAL	POTENTIAL
		PEVROL	-
		a	edimysterials
THIS MAKES FINE	2) ACTILIESS 31A11	HARD.	WI "SOUFF IN

	MOKE INTUITUEUS: EARTH 3 SON
	separately: Eo=Mo EB=MB
	together: forms a BOND STATE: solar eystem
	New separated solar eys:
	but bring them closer: ? Ess = mo + mo - DE empire "Mss"
cf stronic coe sinstean baing penc. which was about frefall	Em?! this violates Equivalence Principle
	REPURL: MASS → GRAN. CHARGE F=MI-TA) F= Ma
	ESULVAUENCE: these are the same (ie gran. Ace is indep or albe or MASS) "CHAPARE"
	BUT if Maron = Mo+Mo, + Mo+Mo-Stein
	BOUTTON: WER. HOUDS, BUT ONLY BC GRAVITY COUPLES TO GRAVITATIONAL FIELD OF BOUND STATE
	grow self oupling.

contrast to electromagnetism:

sure changing E field > B field

7 so forth > En waves

- some thing for Grow waves.

BUT DIFFERENT FROM "GRAN PIEUD AND SURCES GRANITY"

Jo: it's compricated

WHAT ABOUT ALL OF THOSE COMPONENTS!!?

Gru ~ Tru — 16 ERVATIONS:

BUT: G. 1 T. are symmetric: only to eggs

further: they are covariantly anstant

D. T. T. = 0 . D. G. T. = 0

So some of these egs are redundant onalogous to

80 only 6 indep	
about p	879 Tw is a statement substances
lo we have a redundancy	"change of asordinates"
wont oner	= PHYSICS
typicolly	- on hard to some
	-"APPEAL TO SYMMETRY
	2. WORK IN <u>UNEAR</u> APPROX. 3. NUMERICAL RELATIVITY
	eg. one of the dudes that wrote Numerical Recipes

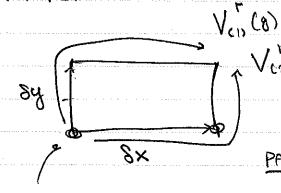
.....

1979 - Marian Karana, and Salatan Assacra and Assacra	
· mando reconsol de de	BUT WE CAN REDUCE FURTHER IF WE ONLY
and the state of t	
, 100 mg	ASK SPECIFIC, IMMINATING QUESTIONS
"in the 1881 The which the Section of Management and Advisor Assembly the short and the section of the section	RECOUL OUD HW:
	EQUIV PRINCIPLE: CAN SET JM - PM @ SOR PONT
	"no gravity" c that point
a andrilana laidean 1900 talah 1908 1908 1908 1908 1908 1908 1908 1908	BUT: feel gravity when you look away from
	that one point.
CONTRACTOR AND	
	GEODESIC DEVIATION: free foll for
* :	nearby particles
TO CONTROL TO THE CONTROL OF THE CON	
_20.000.00.000.00.000.000.000.000.000.00	172 SX = Rivhp Sxxxx
	JE2
•	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	DECM.
like a	MONE X(E) MOUSOU 461801
cocelerati	δO
	rel displacement
TOTAL TELEVISION AND A CONTRACT OF A CONTRAC	of tous text-portroles
-	this is the 'more useful concept'
	TIPM FORCES THAT YOU FEEL
	AS YOU FREE FALL.
### ##################################	AKA: WHY EAWLY. PRINCIPE WON'T SAVE YOU
The second secon	

AS YOU FALL INTO BLACK HAVE

BECALL	HOW	THIS	MOSKED	
--------	-----	------	--------	--

Riemann Tensor:



PARALLEL TRANSPORT

V (P)

HOW ARE VOD & VCD RELATED?

16 8x = EW

8y = & y

original VEC.

then: AS E->0

V(c) - V(i) = E2 RhyBXWXUBV

Use this machinery for relative acceleration (WE'RE BASICALLY THERE)

	à very similar proture
alainea de la companya pengentang an antana pengentang an antana pengentang an antana pengentang an antana pen Pengentang antana pengentang antana pengentang antana pengentang antana pengentang antana pengentang antana pe	8x= 5M Selsting. to each off masses with a lest
	EN J 80; SAME NEWCLAN  LONG TO THE WAY TO TH
vebaly	as A we ransported
	WHAT IS THE RELATIVE VELOCITY AFTER SE = E?
	W. E. C. W. W. W. C.

SUGHTY MORE CONVENIENT TO WRITE  R(W,U) V = - R(U,W) V
30: 11M = -RH 2B8 V X WBVX
~ displacement in space
WE CAN USE THIS TO ASK, QUESTION THAT DISTIUS THE KEY INFO OF EINSTEIN'S EQ.
CONSIDER A HOUTHE BALL OF TEST PARTICLES WI VOWME V(L)
( start a relative rest
PEON: TIDAL FORCE: (::) >> + ()+
align axes along ellipsoid axes.

. . . . . . . . . . . .

$$T^{i}(t) = r_{0}^{i} + 2\alpha^{i} + 2\alpha^{i$$

DISPLACEMENT IN 1 DISS

RELIGIMENT & REST,
SO 4-VENDATY IS VX = SY

(UMT 4-VELIN TIME PIRECTION)

Name of emberio & L, LsL3

=0 pc N=0 wigiaph

then: 
$$V = \sum_{r} \frac{e}{r} = R^{3}$$
 $V = \sum_{r} \frac{e}{r} = R^{3}$ 
 $V = \sum_{r}$ 

RECAL ALTERNATE FORM OF WHAT EINSTEIN EQ.

$$P = -8\pi GT$$

then we an pere down the PHYMS of Emsterns of the small
WHAT HAPPENS TO A BALL OF TEST PARTICLES IN THE PRESENCE OF gravity + ofuff?
Month of the second of the sec
EQUIPLE PRINCIPLE  CA POINT
Ree =-8TG (Tee - = (Tee - Tx - Tyn - T22))
= 4TG T to the transfer of the
FANOY Pt: Raychardhur eg. (Amennx of carrow)

one equation?!

doesn't even use off-diagonal

parts of Tw?!

I thought einstein to has 6 eans maide?!

OUR INIT ASSUMPTION: BALL OF TEST PARTICLES

all "6 egns" come than considering all possible mithal velocities

In # developes of ments youst

ANGROG: D: E ~ P & V.B = 0

ELECTRY MARNETO SCOTICS

is you boost in diff dir. Hose " honstorm into full Maxwell's eg.

yield some info.

SOME OBSERVATIONS

SOURCES OF GRAV, COULAPSE

Cassimo isoprafic

 $\frac{1}{\sqrt{1-2}} = \frac{1}{\sqrt{1-2}} + \frac{1}{\sqrt{1-2}} = \frac{1}$ 

to push outhard?

yes. I it does . eg in a newton star, degeneral pressure resists grav. collapse

BUT THE ENERBY OF THE PRESSURE
ALSO CONTRIBUTES TO THE GRAVITY

ma neutron ster, PNB,
mass 1 pressure contrabute on the
Same o maeniture!

## NEWTONIAN LIMIT (west field, low pressure) GAUSSIAN SURFACE, S · PLANET fill the gaussian surface w magnary marbles (rest voumes) - notages show F INSIDE PLANET: + us not change OUTSIDE -( BUT TIDAL DISCRIPTION OF SHARE) in time st, the imaginary marbles rean figure P': marbles in planet

marbles outside P are distrited into P

$$\frac{SV}{V} = \frac{1}{2} \frac{V}{V} (8t)^{2} = -\frac{1}{8} P(8t)^{2}$$

$$Volume lost, SV = -\frac{1}{8} P(8t)^{2}$$

$$\frac{SV}{V} = -\frac{1}{8} P(8t)^{2} V$$

$$\frac{SV}{V}$$

	EARLY UNIVERSE MOPELS
	extending number: 92= 9F5-01F)59×5
BM B	seems easy to test: BALL OF TEST PARTICLES  UST SEE WHAT HAPPENS — direct people  of "expansion of space"
	BUT: we always had "ball of test particles e rest" e t=0
	Hus is not the are for the expanding norverse
BALL B	S NEED SECOND BALL OF TEST PARTICLES THAT ARE AT REST WITH EQ 6ther
	B) B'
·	B(0) = (0)
	Ř(0) #0 but +(0) =0
	R(0) = ~(0)
	to the common way in the contract of the contr

 $\frac{V}{V} = \frac{3v}{c} = 4\pi \alpha (\rho + 3P)$ 

1

R (80 it didn't end up mathermage)

turns out: true A size BALL

(ASSUMING HOMOG. EXP. UNIV)

I nothing speak about to I true 4t

car coat.

IN CASE OF PRESSURECESS MATTER (DM)

- ausanation of corrors : 683 = ours

3R = -4TTG( p3)

R = 3 R2

T

as if we are in Some Newtonian pot!

