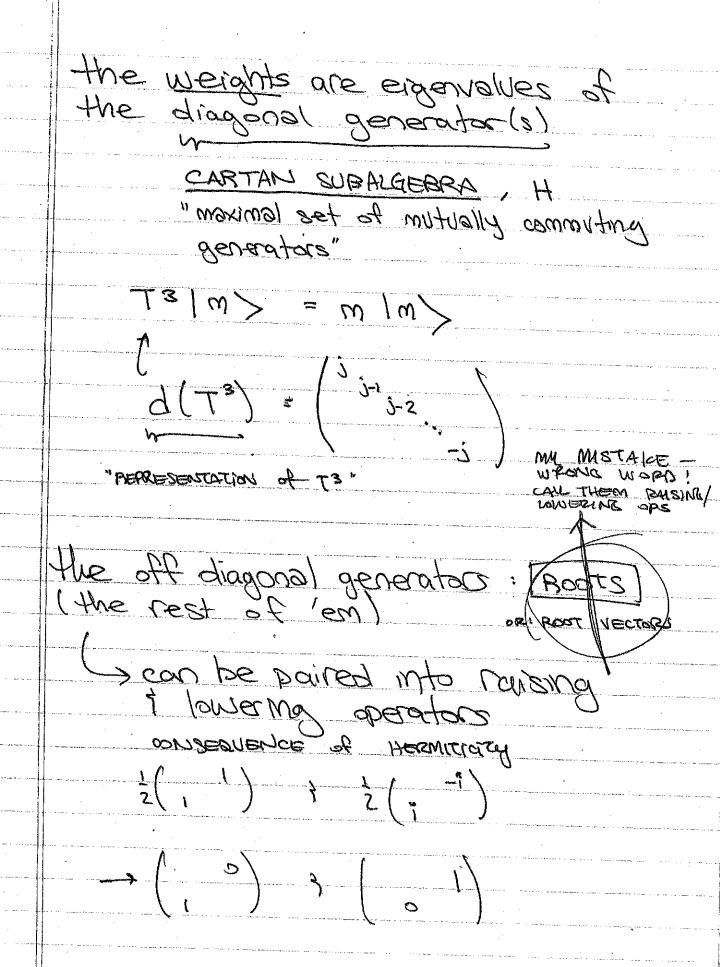
P262 -2019	LEC 4: Adjoint REP. 8U(3). 16 JON 19
	the ADOINT: see roles from
in and the designation of the control of the contro	lecture 3. (we didn't
and the second of the second o	get to the ADMINI)
Form the property and the contract of the second contract of the contract of t	
ومدورة في المواجعة	
	Reminder of nomen dature:
	REPRESENTATION: Vector space
Pida antironomiala energia da deservir de la Colonia de Santo Colonia de Colo	that 'gets reteted'
landense og de kunster halde til generale 70 i storre fanste etter og storre finde er upp gare	
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ANNA TERRONOL STEEL ON SECTION TO THE SECTION STEEL	vector (representation) -> ascient
re. Ka Carlo vite, 2000. Pro vite vite vite vite vite vite vite vite	AECISC (ISHEROLIDAN) -> OBJECT
The state of the s	
ACTIVITY AND ACTIV	1: 3 some # of components
indicated State of Calone (1988 41). Market of Assessible (1988 1988) products	MILETONICO OF MAP
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· · · · · · · · · · · · · · · · · · ·	each component is labelled
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n mentil betild men hall i Polity op sig strypt hill i dat betildlighed styl besiden (stylendard) op de stylende besiden.	basis of rector
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RAISING/LOWERING: charges weight of state
Moves components of the vector (rep) around
what is the weight of "T+1m>"?
T = [< m + T] = [< m + T] = T
oh the weight is (m+1)
Now Go To 80(3) So we wrote matrices in leas notes
KET POINTS:
CAPTAN: {T3, T8}
BEST: 3 PAIRS of RAISING ? LONGRING Obs: only 2 lands but 3 directions!

Company (Sec.) of the company of th	How to we know that these are the generators?
<i>P</i>	50(3): 3×3 matrices M s.f.
	(1) det. M = 1
	(2) M+M = 1
	end of: WRITE M = exp(-iT0)
Transferred to the contract of	mand one: (1) => use Jacobis deamin.
C. I William Commence of the C	M is unitary -> diagonalizable
Company of the second s	M = UMU+ fee in diagonal
	→ det (M) = det(U+MU)
	= det (M) DIAGOUAL TOS
	= det (1 > -i 0 + +)
	= (1-i0t,)(1-i0tz):

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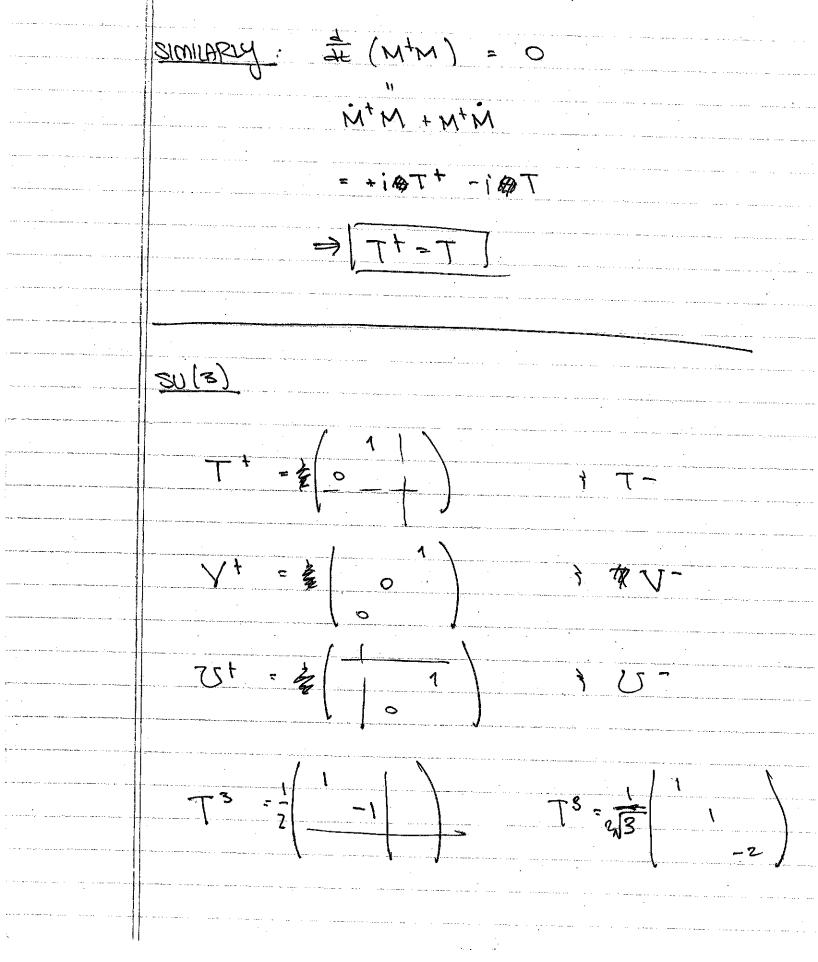
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or and or the state of the stat

30 def (M) | 0=0 = -12 f; - 0 a Property and the second seco if M+LUXICE

1 pensek 11 (1-10T + 50 2 T2 ...) UF -+ +UTUTU = - KUTU 61- TUU



asconutation RELATIONS

$$[U^{+}, U^{-}] = -T^{3} + \sqrt{3}T^{8}$$

$$[T^{3}, U^{\pm}] = \mp \frac{1}{2}U^{\pm}$$

$$[T^{8}, U^{\pm}] = \pm \sqrt{2}U^{\pm}$$

$$[T^{8}, U^{\pm}] = \pm \sqrt{2}U^{\pm}$$

$$\begin{bmatrix} T^{\pm} & V^{\pm} \end{bmatrix} = \mp \nabla^{\mp}$$

$$\begin{bmatrix} T^{\pm} & V^{\pm} \end{bmatrix} = \pm V^{\pm}$$

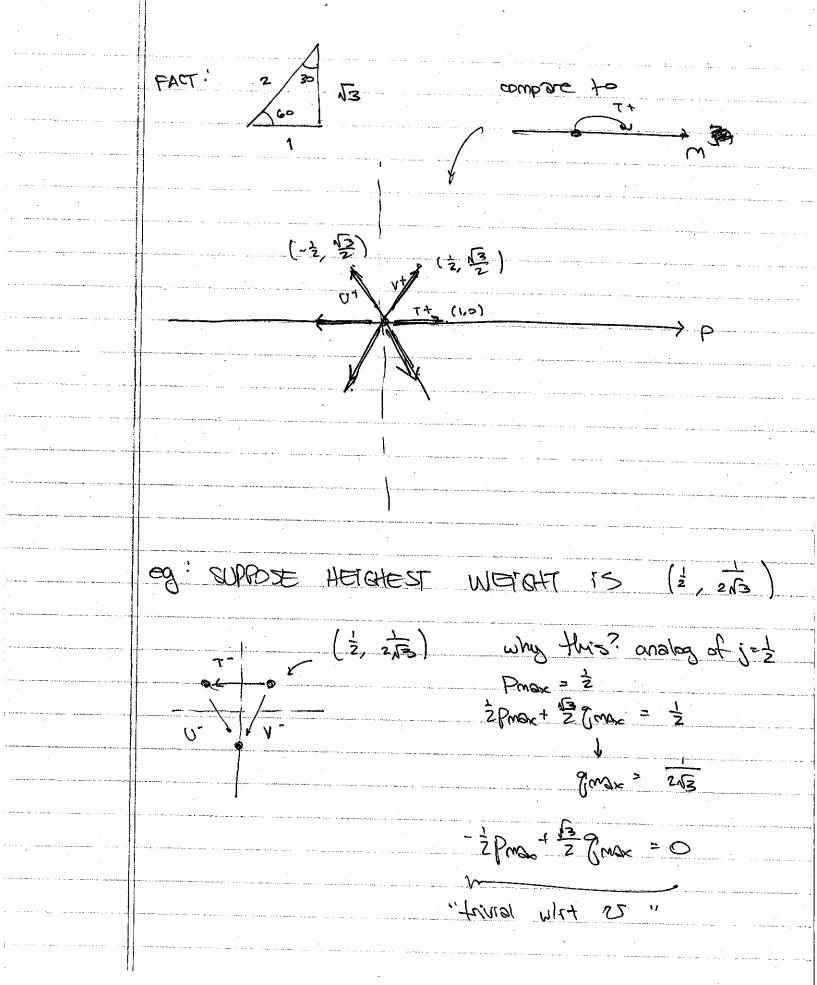
$$\begin{bmatrix} V^{\pm} & V^{\pm} \end{bmatrix} = \pm T^{\pm}$$

(P,G) WEIGHT VECTOR

$$T^{3}|P,g\rangle = P|P,g\rangle$$

$$T^{8}|P,g\rangle = 9|P,g\rangle$$

SUPPOSE WE PAISE LOWER (P. 8) ETTITER - annihilate (highest p, lowest p highest q lowest a) T = 1P.8> HAS WEIGHT (P.8) = (1,0) $V^{\pm} |P,9\rangle = (P,9)^{\pm} (\frac{1}{2}, \frac{\sqrt{3}}{2})$ $U^{\pm} |P.8\rangle = (P.8) \pm (-\frac{1}{2}, \frac{12}{2})$ SU[2)] Heighest Weight is j=n/2[50]: Prox = 11/2 1 Pmax + 2 gmax = 12/2 - 2 Pmac + = 73/2 > 13 gmax is a number



	THE ADJOINT (REP)
TO THE PERSON NAMED OF THE	the matrices (of the purphonement acts) are themselves a basis of a representation
Antonio de la secución de la secució	USE: TA TBJ = TABCTC
	So now the T T Matrix ad (T) - Matrix & Basis 17
	the (FARE) GIVE THE MATRIX ELEMENTS
	AB
	$\frac{2d(T+) TB}{= -i[TA,TB]}$
	ABCTO
Chall Back and Market Address (aggregate Mary - Agr-ty - aggregate Mary - Agr-ty - aggregate Mary - Aggregat	29 800 a 6 and 2 15 2