Meanment. Composite system - Combinational quoblens Treatic Solution. Scaling -> Clausical Tenja Model: E({())= -T & si's; SE(-1,17 Computational Bais: 107= //

19>= e' (Cos 0 /0) + e' sin 0 /1) 19,7211> UTUZI 2×2 unitary Matrix.

Paule' × gate	10> 11>
· · · · · · · · · · · · · · · · · · ·	
Hadamarel	
Pauli X	
Pauli y	
10000 (
Pauli Z	
Physe	
II B	
Rn	
Ry	
V	
RZ	

U= e id R2(B) Ry(8) RZ(S) Eigenvalues 4 Rigen vectors A/V) = V/V) ATA: AAT Special des mposition. Control -> Cont 10> (c) (c) +> (C7/t) ->

Control -	
terget	
1 C> 1 t>	$\rightarrow lc\rangle U^{c}lt\rangle$
Single quis	it gates & CNOT gates are universal.
favior dyn	emia!+
fusion	rlection.
-> fixed	on Plation.
1) Non Cay	Ture breaky Elassic
2 NM Ca	pture breakup - Ineleverc.
(3) t- Co	pture
(4) x - C	ysture

	Divert complete fusion
6	Seguentral complete fueron.
→ M	pro cees
→ ,	Up proces
7	7 procent.
?	p(y) process
*	S process
<u> </u>	CND Cycle
7	Stellar Jusim
3	e- Opture
3	r-procey
7	Furim
7	pp chapt.

Big Bang Kulusyntherite

Claurically not jourtle $\frac{d}{dt} \left| \psi(d) \right\rangle_{z} - iH \left| \psi(H) \right\rangle$ 14(4))= exp(-iht) /4/b)) Claves celly [1- 8HHP -. -] (P(H), H14n)= En 14n}

1411)= S! (n e-i Ent/En).

3 Eucledian finse evolution when we get rid of (i) $\frac{d}{dz} | \Psi(z) \rangle = -H/\Psi(z) \rangle$ In Eucledian time evolution we get 14(25)= exp(-H+) 14(0)> 14(z)>= Si Cn e (En) The Eucledian time evolution & dominated by low engy states. Eucledian time + it an sperator
b cue don't take the time
evolution