NEW PICTURE SCHRODINGER'S EQUATION A 14(t)> = 1x3 14(t)> $-\frac{x^{2}}{2m}\frac{\partial^{2} + (x,t)}{\partial x^{2}} + V(x) + V(x,t) = i + \frac{\partial^{2} + (x,t)}{\partial t}$ 2nd DERIVATIVE IST DERIVATIVE IN SPACE IN TIME RELATIVITY TELLS US SPACE + TIME ARE ~ EQUIVALENT 7 OPTION#4 and DERIVATIVE FOR BOTH · SCHRODINGER REALIZED THIS "HAD" ANOTHER EQUATION FIRST !!! NOW KNOWN AS KLEIN - GORDON EQUATION "IT HAD ISSUES" - ENERGY
- PROBABILITY DISAGREEMENT W LAB DATA 9 OPTION #2 1ST DER FUATES FOR t, X ADIRAC EQUATION &

2)

MAKE US THINK ABOUT

E = MC2

CONCEPTUALLY

<-- ×

TRY NOT TO THINK ABOUT MASS TOO MUCH NOW

LIGHT PHOTONS MASSLESS

TRANSFORMATION

CREATION

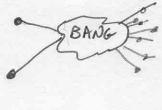
ANNIHILATION

"SINGLE PARTICLE"

H 14> = 14 214>

INTERACTIONS IN LIFE CAN BE MESSY"

5 BANG



VERY STYLIZED

MULTI WAVE FUNCTION SYSTEM

143> -> | 4, 4, 4,>

VIEW MODERN TIMES

A (FIELD) OPERATOR

IST NEW VIEW

QED = QUANTUM ELECTRODYNAMICS N QUANTUM + SPECIAL RELATIVITY.

"FERMIONS CAN EMIT AND ABSORB UTRILAL PHOTONS"