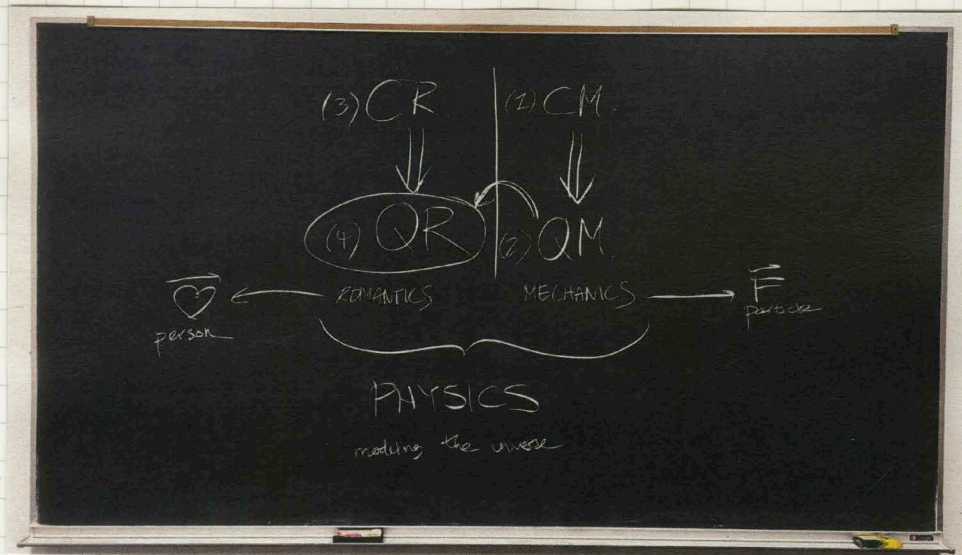


LECTURE 1: FOUNDATIONS OF QUANTUM ROMANTICS

CONCEPTS, BASES, LQS (OPERATORS), PRINCIPLE PARADOXES

NOTES

I. INTRODUCTION:



QUANTUM ROMANTICS FOLLOWS AFTER CLASSICAL ROMANTICS,

QUANTUM MECHANICS FOLLOWS AFTER CLASSICAL MECHANICS.

ROMANTICS & MECHANICS ARE SUBFIELDS OF PHYSICS,

MODELING SPECIFIC BEHAVIORS OF THE UNIVERSE:

LOVE & DESIRE IN PERSONS, FORCE & MOTION IN PARTICLES.

QUANTUM ROMANTICS & QUANTUM MECHANICS SHARE MATHEMATICS,

WITH NOTABLE EXCEPTIONS.

NOTES.

II. CONCEPTUAL OVERVIEW.

QM.

SPIN

(classical) $\vec{\mu}$

$\hookrightarrow \mu_z = |\vec{\mu}| \cos \theta$

$\hookrightarrow (-\mu_z, +\mu_z)$

ACTUAL: $\mu_z = \pm \frac{1}{2} \hbar$

\downarrow

SPIN- $\frac{1}{2}$

(NEW TO QM)

DISCRETE
FINITE

POSITION & MOMENTUM

(same as classical)

$\vec{x} \ \& \ \vec{p}$

ACTUAL:

\hookrightarrow DISCRETE, FINITE

CANONICALLY
CONJUGATE: $\Delta x \Delta p \geq \frac{\hbar}{2}$

2.1 QM REVIEW.

SPIN IS NEW (NOVEL), RELATED TO MAGNETIC MOMENT.

SPIN HAS FINITE POSSIBILITIES OF DISCRETE VALUES.

MAGNETIC MOMENT SHOULD HAVE INFINITE POSSIBILITIES

WITHIN A CONTINUOUS RANGE OF VALUES,

BUT IS FINITE & DISCRETE IN REALITY. HENCE, SPIN.

POSITION & MOMENTUM ARE (RE)NEW(ED).

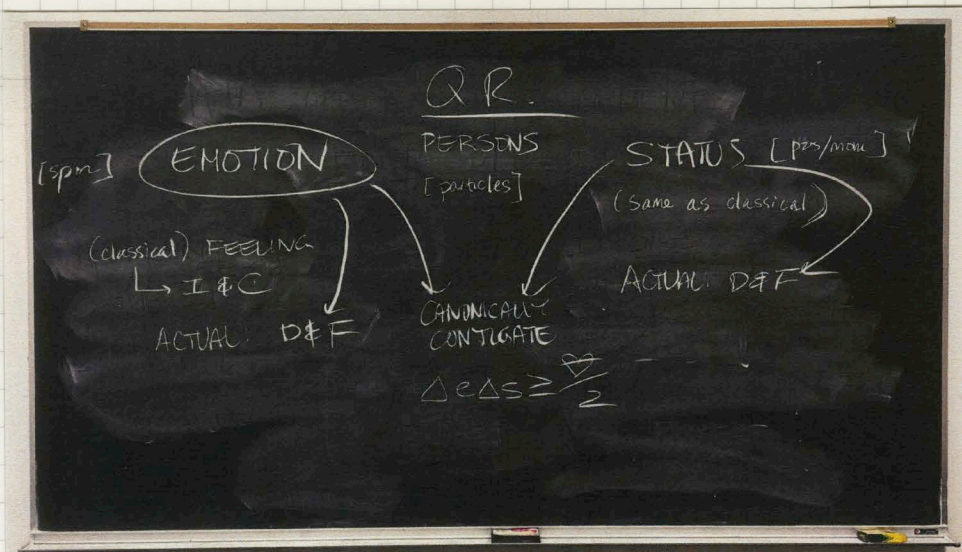
THE SAME CONCEPTS NOW HAVE FINITE POSSIBILITIES OF DISCRETE VALUES.

POSITION & MOMENTUM ARE CANONICALLY CONJUGATE:

SIMULTANEOUS KNOWLEDGE OF BOTH IS IMPOSSIBLE.

NOTES.

2.2 QM TO QR ANALOGY.



EMOTION IS NEW (NOVEL), RELATED TO FEELING.

EMOTION HAS **FINITE** POSSIBILITIES OF **DISCRETE** VALUES.

FEELING SHOULD HAVE **INFINITE** POSSIBILITIES

WITHIN A **CONTINUOUS** RANGE OF VALUES,

BUT IS **FINITE & DISCRETE** IN REALITY. HENCE, EMOTION.

STATUS IS (RE)NEW(ED).

THE SAME CONCEPT NOW HAS **FINITE** POSSIBILITIES OF **DISCRETE** VALUES.

EMOTION & STATUS ARE CANONICALLY CONJUGATE:

SIMULTANEOUS KNOWLEDGE OF BOTH IS IMPOSSIBLE.

NOTES

2.3 ONTOLOGICAL CAUSALITY IN QM.

WHY ARE ALL MEASUREMENTS FINITE & DISCRETE?

1. ORIGIN

particles: $D \& F$

↓
observables: $D \& F$

by "nature"

2. POIESIS

particles: $I \& C$

process of creating
is discretizing

↓
observables: $D \& F$

by PROCESS

(of constructing reality)

WHY IS REALITY FINITE & DISCRETE?

1. PARTICLES ARE FINITE & DISCRETE BY ORIGINAL NATURE.

2. PARTICLES EXIST IN AN INFINITE FIRMAMENT;

COMMUNICATION IS AN INHERENTLY DISCRETIZING PROCESS.

NOTES.

2.4 ONTOLOGICAL CAUSALITY IN QR.

WHY ARE ALL INTERACTIONS
FINITE & DISCRETE?

1. ORIGIN

persons: D&F



interactions: D&F
by "nature"



2. POIESIS

persons: IDC

process of
communicating
is discrete



interactions: D&F

by PROCESS
of creating relationship

IS THE TOTALITY OF MY LIVED EXPERIENCE

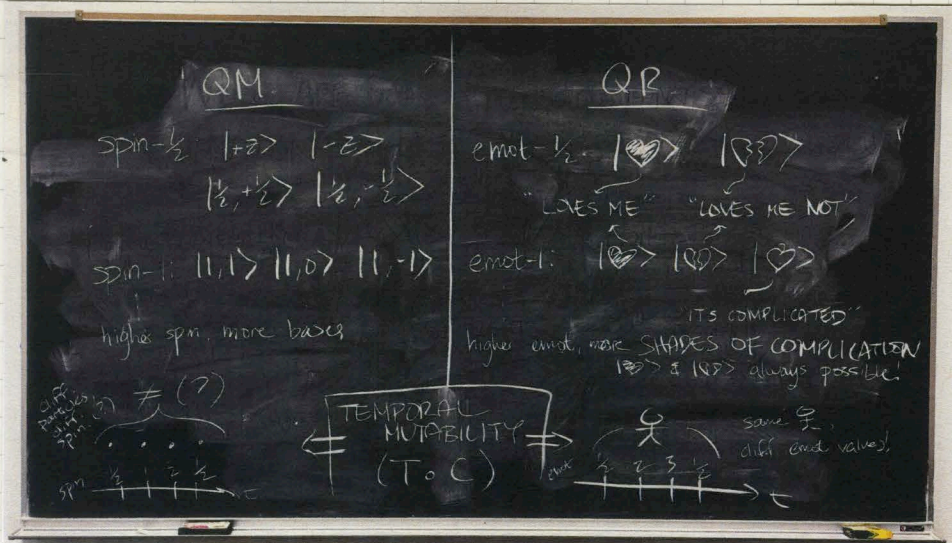
A CONTINUOUS & INFINITE THING,

ONLY IMPERFECTLY EXPRESSIBLE

THROUGH DISCRETE & FINITE EXTERNALIZATIONS?

NOTES.

III. EMOT STATE BASES.



FOR ALL EMOT VALUES, LOVES ME & LOVES ME NOT

ALWAYS FORM TWO ORTHOGONAL DIMENSIONS OF POSSIBLE MEASUREMENT.

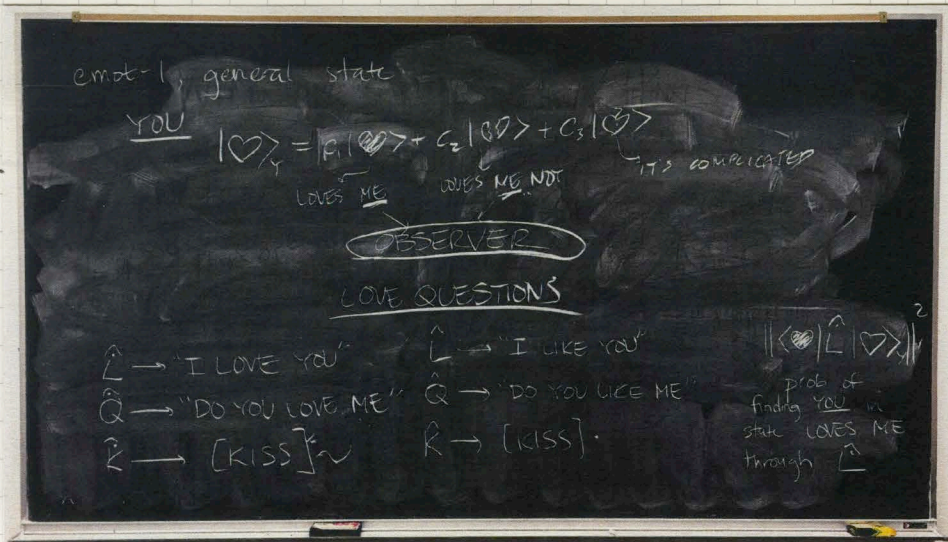
HIGHER EMOT VALUES HAVE MULTIPLE SHADES OF IT'S COMPLICATED,

SPLITTING INTO MULTIPLE ORTHOGONAL DIMENSIONS OF POSSIBLE MEASUREMENT.

EMOT VALUES CHANGE OVER TIME.

NOTES.

IV. LQS (OPERATORS IN QR).



4.1 INTRODUCTION TO LQS.

THE ONE-PERSON STATE OF YOU INVOKES ME, THE OBSERVER.

(THE CLASSICAL PARADOX OF EROS SEEPS INTO QUANTUM MATHEMATICS.)

MEASUREMENTS OF YOU ARE MADE BY ME THROUGH LOVE QUESTIONS:

INTERACTIONS THAT TELL ME ABOUT THE EMOT STATE OF YOU.

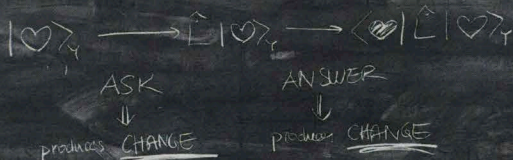
I MODEL THE PROBABILITY OF FINDING YOU IN THE STATE I LOVE YOU.

AS MEASURED THROUGH THE LOVE QUESTION I LOVE YOU.

NOTES.

4.2 THE PRINCIPLE PARADOX OF INTERROGATIVE NECESSITY

to make a measurement:



i. LQS are NECESSARY for ALL measurements on endo states.

$$\Rightarrow \|\langle\heartsuit|\heartsuit\rangle_4\|^2 = \text{UNDEFINED}$$

\Rightarrow endo states need not be normalized

\Rightarrow LQS must include normalization

MEASUREMENT MUST BE MADE THROUGH AN ASKING

WHICH PROVOKES AN ANSWERING. HENCE, INTERROGATIVE NECESSITY.

THE BEING ASKED, AND THE ANSWERING, PROVOKES CHANGE.

HENCE: PARADOX.

THE IDENTITY OPERATOR IS EXPERIMENTALLY MEANINGLESS.

NOTES.

4.3 THE PRINCIPLE PARADOX OF SUBJECTIVITY.

how to define operator of \hat{L} on $|\heartsuit\rangle$?

matrix mechanics:

$$\langle\heartsuit| \rightarrow (1 \ 0 \ 0)$$

$$|\heartsuit\rangle \rightarrow \begin{pmatrix} c_1 \\ c_2 \\ c_3 \end{pmatrix}$$

P.P.S

$$\hat{L}_{M-Y} |\heartsuit\rangle \neq 1_{O-Y} |\heartsuit\rangle$$

ME \rightarrow YOU OTHER \rightarrow YOU

$$\hat{L}_{M-Y} \rightarrow \begin{pmatrix} \langle\heartsuit|\hat{L}_{M-Y}|\heartsuit\rangle & \langle\heartsuit|\hat{L}_{M-Y}|10\rangle & \langle\heartsuit|\hat{L}_{M-Y}|11\rangle \\ \langle 10|\hat{L}_{M-Y}|\heartsuit\rangle & \langle 10|\hat{L}_{M-Y}|10\rangle & \langle 10|\hat{L}_{M-Y}|11\rangle \\ \langle 11|\hat{L}_{M-Y}|\heartsuit\rangle & \langle 11|\hat{L}_{M-Y}|10\rangle & \langle 11|\hat{L}_{M-Y}|11\rangle \end{pmatrix}$$

$\hat{L}_{M-Y} = \langle\heartsuit|\hat{L}_{M-Y}|\heartsuit\rangle$

Diagram: A circle labeled $|\heartsuit\rangle$ is connected to two boxes labeled ME and OTHER. Arrows labeled L_{M-Y} point from ME and OTHER to the circle.

FOR EVERY YOU, THERE EXISTS A UNIQUE HILBERT-SOUL SPACE
OF EMDT STATE VECTORS OF YOU.

FOR EVERY ME - YOU PAIR

EVERY OBSERVER - OBSERVEE PAIR

EVERY LOVER - BELOVED PAIR

THERE EXISTS A UNIQUE OPERATOR SPACE

OF LOVE QUESTIONS BETWEEN ME & YOU.

NOTES.

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100 100
100 100

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