

Sir

John C. ECCLES 1

last book

HOW the SELF
controls its BRAIN

(Springer 1994)

cp@ags.uni-sb.de

John C. ECCLES

* 1903 Melbourne, Australia

+ 1997 L Carno

Studies - medicine (Melbourne)

- Ph.D (Oxford)

Lecturer - (Oxford)

Director (Sydney)

Prof. (Otago, New Zealand)

Prof. (Canberra, Australia)

Prof. (Buffalo, NY)

1963 NOBEL LAUREATE:

PHYSIOLOGIC' OF THE BRAIN

**1951 FIRST PHILOSOPHICAL
PUBLICATION**

BRAIN/MIND THEORIES

● MONISM

(1) RADICAL MATERIALISM

"NO MIND" (BAD MODEL)

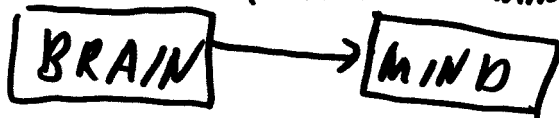
(2) PANPSYCHISM (UNSCIENTIFIC, → POETRY)

(3) IDENTITY THEORY

"BRAIN = MIND"

(GIVES THE FUTURE TO THE NEUROSCIENTISTS)

● EPIPHENOMALISM "MIND IS EPIPHENOMENON"



↳ MICROEVOLUTION (MIND IS USELESS)

● DUALIST - INTERACTIONISM



CONTAINS THE MONOMORPHIC IMAGES OF ALL OTHER THEORIES

OCHAM'S RAZOR DOES NOT APPLY
→ BEST TO START WITH

EZCES.

^ MONISM IS A
SUPERSTITION PREFERRED
BY THE SUPERFICIAL CONTEMPORARIES
WHO DO NOT WANT TO BECOME
AWARE OF THEMSELVES
BECAUSE THEY HAVE
A TERROR OF
CONSCIOUSNESS ∇_0^h

ECCLES: WHY DO YOU CLAIM
THE POSSIBILITY OF
SUPER COMPUTERS
THAT HAVE CONSCIOUS-
NESS?

MINSKY (LITERALLY):

BECAUSE I GET
LARGER GRANT SUPPORT !

A

BRAIN

PYRAMIDAL CELLS OF NEO-CORTEX (MAMMALS ONLY)

DENDRON

(= COLUMN STRUCTURE OF PYRAMIDAL DENTRITES; UP TO 10^5 SYNAPSES, 2×10^3 ON EACH APICAL DENTRITE)

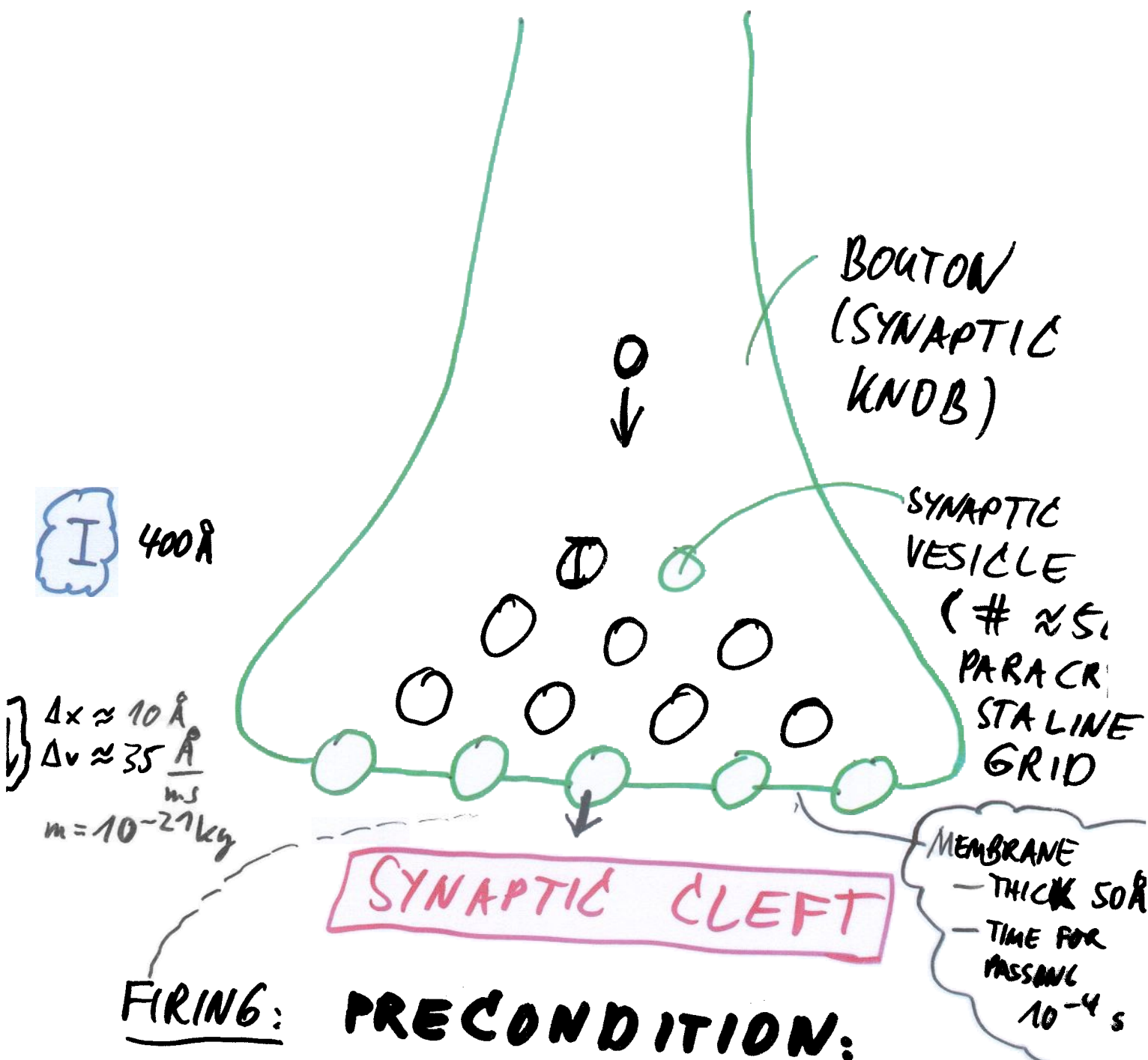
MIND

QUANTUM FIELD (NEITHER MATTER NOR ENERGY)

PSYCHON

(UNIQUE ELEMENTARY EXPERIENCE, QUALIUM)

REPTILES DO NOT
SHOW CONSCIOUSNESS



FIRING:

PRECONDITION:

ELECTRICAL SIGNAL ON AXON
 AT MOST ONE VESICLE FIRES!
 → DIGITAL √

ANALYSIS WITH NATURALS, NOT
 REAL NUMBERS

LIKELINESS: dorso spino cerebellar tract: 0.8
 hippocampus: 0.2

QUANTUM SELECTION
 BY A PROBABILITY FIELD! → LOW?

CONCLUSION

DUALIST - INTERACTIONISM

— SCIENTIFIC EVIDENCE
(DIGITAL BEHAVIOR IN
ANALOGUE BRAIN)

— FREE WILL,

TELEPATHY,

BINDING PROBLEM

(CONSCIOUS ATTENTION = UNITY)

(GENERALLY: INTERACTION BETWEEN
WIDELY SEPARATED CORTICAL AREAS),

CONSCIOUSNESS,

SELF-CONSCIOUSNESS

LIBET (READINESS POTENTIAL ENABLES
CONSCIOUS WILL TO CHOOSE
DECOHERENCE FROM A
COHERENT QUANTUM STATE)

BRAIN → [MIND] → MOTORIC NERVES

- SELF -
EVIDENT !

I AM THE !

(Fichte)

EYE AND I

(Rastafaris)