

XXXXXXXXXX XXXXXXXX

XXXXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX .1

XXXXXXXXXXXXXX XX XXXXXXX XXXXXXX XX XXXXXXX .1.1

XXXXXX XX XXXXXXX XX XXXXXXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX ∞ .2.1

XXXXXXXXXX XXXXXXX .2

XXXXXXXXXX XX XXXXXXXXXX .3

XXXX XX XXXXXXX XX XXXXXXX XX XXXXXXXXXX XX XXXXXXX :1930 .1.3

XXXX XXXXXXX XXXXXXXXXX

XXXX XXXXX XX XXXXX XX XXXXXXXXXX XXXX XXXXXXXXXX XXXX :1926 .2.3

XXXX XXXXXXX-XXXXXXX XXXX XX XXXXXXX XXX XXXXXXXXXX :1927 .3.3

'XXXXXXXXXX XXXXXXX XXXXXXXXXX XXXX':XXXXXXXXXX XXXX 🤖 .1.3.3

XXXXXXXXXX XXXXXXX XXXXXXXXXX XXXXX XX XXXXXXX XXXXXXXXXX XXXXXXX .4

XXXXXXX

XXXX XXXXXXX XXXXXXX :1934 .1.4

XXXX XXXXXXX XXXXXXX :1935 .2.4

XXXX XXXXXXX XX XXXXXXXXXX XXXXXXX ∞ :XXXXXXXX .3.4

XXXXXX XX XXXXX XXXXXXX XXXXXXX XX XXXXXXXXXX XXXXXXX .1.3.4

XXXXXXXXXX XXXXXXX .5

XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX .1.5

XXXX XXXXX XXXXXXXXXX XX XXXXXXX :XXXXXX XXXXXXX .1.1.5

XXXXXXXXXX XXXXX XXXXXXXXXX XX XXXXXXX :XXXXXX XXXXXXX XXXXXXX .2.1.5

XXXXXXXXXX XXXXXXX XXXXXXXXXX XX XXXXXXX :XXXXXX XXXXXXXXXX 📧 .2.5

XXXXXX XXXX

XXXXXXXXXX XX XXXXXXXXXX XXXXXXXXXX .6

XXXXXXX .7

XXXXXXXXXX XXXXXXX XXXXXXXXXX XX XXXXXXXXXX XX XX 🎓

XXXXXXXXXXXX XX XXXXX XX XXXXXXXXXX .1.7

××× ×××××× ×× 2025 ×××××× 22

[/https://pk.cosmicphilosophy.org/neutrinos](https://pk.cosmicphilosophy.org/neutrinos)

.1 xxx

xxxx xxxxxx xxxxxxxx

xxxxx

xxxx xxxxxxxxxx xxxxxx

xxxx xxxxxx xxx xxxxxxxxxx

xxxx xxxxxxx xxxxxxxxxx xxx xxxxxxx xxxxxxxxxx xxx
xxxxxxx xxx xxxxxxx xxxxxxxxxx xxxxxxx xxxxxxx xxx



xxxxxxxxxxxx xxxxxx xxxxxxx xxxxxxx xxxxxxx xxxxxxx

xxx xxxxxxx xxxxxx xxxxxxx xxxxxxxxxx xxx xxxxxxx xxx xxxxxxx

xxx xxxxxxx xxxxxxx xxxxxxx xxxxxxxxxx xxx xxxxxxx xxxxxxxxxx

'xxxxxxx xxxxxxx' xxxxxx xxxxxxx xxxxxxx xxxxxxx

xxxx xxx xxxxxxxxxx

xxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxx xxxxxxxxxx-xxxxxxx

:xxxx xxxxxxx xxxxxx xxx xxxxxxxxxx xxx

xxxxxxx xxx xxxxxx xxx xxxxxxx xxxxxxxxxx xxxxxx



xxxxxxx xxx xxxxxxxxxx xxxxxxxxxx xxx xxxxxxxxxx

xxxx xxxxxxx xxxxxxx xxx xxxxxxxxxx



xxxxxxx xxx xxxxxxxxxx

xxx xxxxxxx xxxxxx' xxxxxxx xxxxxxx'

xxxxxxx xxx xxxxxxxxxx xxx xxxxxxxxxx

xx xxxxxx xxxxxx xx xxxxxx xxxxxx xxx xxxxxx xxxxxx⁽¹⁾
 xxxxxx xxxxxxxxxxxx xxxxxx xxx xxxxxx xxxxxxxxxxxxxx xxx xxx
 xx xxxxxx xxxxxx xxxxxx xxxxxxxxxxxxxx xxxxxxxxxxxxxx xxx xxxxxx⁽¹⁾
 xxxxxxxxxxxxxx xxxxxx xxx xxxxxxxxxxxxxx' xxx xxxxxxxxxxxxxx xxx xxxxxx xxx
 xxxxxx xxx xxx xxx xxxxxx xxxxxx xxxxxxxxxxxxxx xxx xxxxxxxxxxxxxx⁽¹⁾
 xxxxxxxxxxxxxx xxxxxxxxxxxxxx xxx xxxxxx xxxxxxxxxxxxxx xxx xxxxxxxxxxxxxx
 xxxxxx xxxxxx xxx xxxxxxxxxxxxxx xxx xxx xxxxxxxxxxxxxx xxx xxxxxx
 xxxxxx xxxxxxxxxxxxxx xxxxxx xxx xxxxxxxxxxxxxx xxx xxxxxxxxxxxxxx
 xxx xxx xxxxxxxxxxxxxx xxx xxxxxxxxxxxxxx xxx xxxxxxxxxxxxxx xxx xxxxxx
 xxx xxx xxxxxxxxxxxxxx xxx xxxxxxxxxxxxxx xxx xxxxxxxxxxxxxx xxx xxxxxx
 xxxxxxxxxxxxxx xxx xxx xxxxxx

xxx) xxxxxxxxxxx xxxxxx xxxxxx xxxxxx xxxxxx $\Delta t 10^{-24}$ xxxxxxxxxxx xxx xxxxxx⁽¹⁾
 xxxxxx xxxxxxxxxxxxxx xxx xxxxxxxxxxxxxx xxxxxxxxxxxxxx  xxx (xxxxxxxxxxxxxxxx xxx xxxxxxxxxxxxxx
 xxxxxxxxxxx xxxxxx xxx xxxxxxxxxxx xxxxxx xxx  xxxxxxxxxxx xxx xxxxxxxxxxx xxx xxxxxx
 xxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxx xxxxxxxxxxx xxx xxxxxxxxxxx xxx xxxxxxxxxxx xxx xxxxxxxxxxx
 xxxxxx 15 xxx (xxxxxxxxxxxxxxxx xxxxxxxxxxx xxxxxxxxxxx 2 xxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxxx)
 xxxxxx xxxxxxxxxxx xxxxxxxxxxx xxxxxxxxxxx

xxxxxxxxxxx xxxxxxxxxxx xxxxxxxxxxx xxxxxx / xxxxxxxxxxx xxx xxxxxxxxxxxxxxxxxxxxxx
 xxxxxxxxxxx xxxxxx Δt xxxxxxxxxxx xxxxxx xxxxxxxxxxxxxx xxx xxxxxxxxxxxxxx xxxxxx
 : xxx xxxxxxxxxxx xxxxxxxxxxx xxxxxxxxxxx xxxxxx

- xxx xxxxxxxxxxx xxxxxxxxxxx xxxxxx xxxxxx xxxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxx
 xxxxxxxx xxxxxxxxxxx xxxxxxxxxxx xxx Δt xxxxxx
- xxx xxxxxxxxxxx xxxxxxxxxxx xxxxxxxxxxx xxxxxxxxxxx xxx xxxxxxxxxxx xxx Δt
 xxxxxxxx xxxxxxxxxxx xxxxxx Δt) xxxxxxxxxxx xxxxxxxxxxx xxxxxxxxxxx
 xxxxxx xxxxxxxxxxxxxxxxxxx xxx xxxxxxxxxxx xxxxxxxxxxx xxxxxxxxxxxxxx (xxx
 xxxxxxxxxxx xxx xxxxxxxxxxxxxxxxxxxxxx / xxxxxxxxxxx xxx xxxxxxxxxxx xxxxxxxxxxxxxx
 xxx xxxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxx ... xxx xxx xxxxxxxxxxxxxx xxxxxx
 xxxxxxxx xxxxxxxxxxx xxxxxxxxxxx xxxxxxxxxxx

:XXXXXXXXXX

XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX
XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX
XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX
XXXXXXXXXXXXXXXXXX

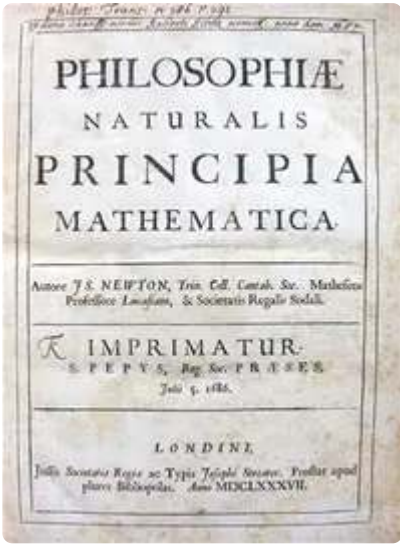
XXXXXXXXXX XX Δt XXXXXXXXXXXX XXXXXXXXXXXX
XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX
'XXXXXXXXX 🍀', XXXXXXXXXXXX XXXXXXXXXXXX
XX Δt XXXXXXXXXXXX XXXXXXXXXXXX
XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX

▶ XXXXXXXXXXXX XXXXXXXXXXXX Δt
XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX

▶ XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX
XXXXXXXXXX — XXXXXXXXXXXX XXXXXXXXXXXX Δt XXXXXXXXXXXX
XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX Δt
XXXXXXXXXX

XXXXXXXXXX XXXXXXXXXXXX — XXXXXXXXXXXX XXXXXXXXXXXX
XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX
XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX
'XXXXXXXXXX XXXXXXXXXXXX 🙌', XXXXXXXXXXXX XXXXXXXXXXXX
XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX (XXXXXXXXXX XXXXXXXXXXXX)
XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX
XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX

× × × × × × × × × ×



□□ □□□□ □□□□□' □□ □□□□□
'□□□□ □□□□□□□□

×××××××× ×××××× ×× ×××× ××××××

××××× ××××× ××××' ××××× ××××××' ××

×××××××× ×××××× ×× ××××××××

××××× ×× ×××××××× ××' ××××××××'

××××××× ××××× ×× ×××××× ××××× ×××××

×××××× ×× ××× ××× ××××××× ××××× ×××××

××××××× ×××××××××× ×××××××××× ××

××××× ××× ×××××××××× ×××× ×××××× ××××××

××××× ×××××××××××× ××××××× ×××××××××

××××× ××××× ×××××××××××× ×××××××××

×××××××××× ×××××××× ×××××× ×××××××××××

×××××× ×××××××× ×××××××××× ××××× ×××××× ×××××

×××××× ××××× ××× ×××××××××× ×××××××××××

××××× ×××××××××× ××× ××××××××××××××××

××××× ×××××××× ××× ×××××××××××××××××

××××× ×××××××× ××× E=mc² ××××××××××××××××

××××××× ×××××××××× ××××××××××××××××××

×××××××××× ××××××××××××××××××××××××

××××××××××××××××××××××××××××××××××

××××××××××××××××××××××××××××××××××

××××××××××××××××××××××××××××××××××

××××××××××××××××××××××××××××××××××

××××××××××××××××××××××××××××××××××

××××××××××××××××××××××××××××××××××

××××××××××××××××××××××××××××××××××

××××××××××××××××××××××××××××××××××

××××××××××××××××××××××××××××××××××

xx xxxxxxxx' xxxxxxxx xxxxxxxx xxxxxxxx' xxx
xxxxxxxxxxxxxxxx-xxxxxxxx xxxxxxxx xxxxxxxx
xx xxxxxx' xxxxxxxxxx xxxxxxxxxx
xxxxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
xxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
xxxxxxxxxxxx xxxxxxxxxx xxxxxxxxxx' xxxxxxxxxx'
xxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
xxxxxxxxxxxxx ∞ xxxxxxxxxx xxxxxxxxxx' xxxxxxxxxx' xx
xxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
xxxxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
xxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
xxxxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
xxxxxxxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
xxxxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
xxxxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
xxxxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
xxxxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
xxxxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
xxxxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
xxxxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
xxxxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx

.3 xxxxx

xx xx xxx xxx xxx xxx xxx xxx xxx xxx

xx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxx 1920
xxxxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
xxxxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx
xxxxxxxx' xxxxxxxxxx' xxxxxxxxxx' xxxxxxxxxx'

XXXXXXXX' XXXX XX XXXXXX XX XXXXXXXXXXXXXXX XXX XX
:XXXX XXXX XXXXXXX XX GPT-4 XXXX XXXXX XX'XXXXXXXXXX

XXXXXXXX' [XXXXXXXX XXXX XX] XXXXXX XX XX
XXXXXXXXXX XX XXXXXX XXXXXXXXXXXXXXX [XX'XXXXXXXXXXXX
:XX XXXXXX XXXXXXXX XXXXXX XX XXXXXXX

▶ XXXXX XX XXXXXXXX XXXX XX XXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXX XXXXXXXXXXXXXXX
XXXXXXXX XXXXXX XXXXXXXXXX XX XXXXXXXX XXXX

▶ XXXX XXXXXXXXXXX XXXXXXXXXXXXXXX XXXXXXXXXXXXXXX XX
XXXXXXXX XX XXXXXX XX'XXXXXXXXXXXX XXXXXXXX' XX
XXXXXXXX

▶ XXXX XXXX XXXXXXXXXXXXXXX XXXXXXXXXXXXXXX
XXXX (XXXXXXXX XXXXXXXXXXXXXXX XXXXXXXXXXXXXXX)
XXXXXXXX XXXXXX XXXX XXXXXXXXXXXXXXX XXXXXXXXXXXXXXX
XX XX XXXXXX XX XXXXXXXX XX XXXXXXXXXXXXXXX
XXXXXXXXX' XXXX XXXX XX XXXXXXXXXXXXXXX XX XXXXXXX
XXXX XXXXXXXX XXX XXXXXXXXXXXXXXX XX'XXXXXXXXXXXX

'XXXXXXXX XXXXXXXX' XXXXXX XXXXXXXXXXX XX XXXXXXX XXXXXXXXXXXXXXX
XXXX XXXXXXX XXXX XXXXXXX XXXXXXX XXXXXXX XXX XXXXXXX XX
XXXXXXXX XXXXXXXX XXXXXXXXXXXXXXX XX XXXXXXXXXXXXXXX XXXX XXXXXXXXXXXXXXX
XXXXXXXX XXXXXXXXXXXXXXX XXXXXXX-XXXXXXXX XXXX XXXX XX
XX XXXXXXXXXXX XXXX'XXXXXXXXXXXX XXXXXXXXXXXXXXX XXXXXXX XXXXXXXXXXXXXXX
X'XXXXXXXX XXXX XXX XXXXXXXXXXXXXXX XXXXXXXXXXXXXXX

xx xxxxxx xxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxx xx xxxx

xxxxx 'xxxx xxxxxxxx' xx 'xxxxxxx xxxxxxxx'

xxx xx xxxxxx xxxxxxxxxx xx xxxxxxxxxx xxxxxx xx

xxxxxxx xxxxxx xxxxxxxxxx xxxxxx xxxxxxxxxx xxxxxx xxxxxxxxxx

xxxxxx xxxxxx xxxxxxxxxx xxxxxx xxx xxx xxx xxxxxx xxxxxx

xxx xx xxxxxx xx xxxxxxxxxx xxxxxxxxxx xxx xxxxxx xxxxxxxxxx

xxxxxx xx xxxxxx xx xxxxxxxxxx xxxxxxxxxx xxx xxxxxx xxxxxxxxxx

xxx xxxxxx xx xxxxxxxxxx xxxxxxxxxx xxx xxxxxx xxxxxxxxxx

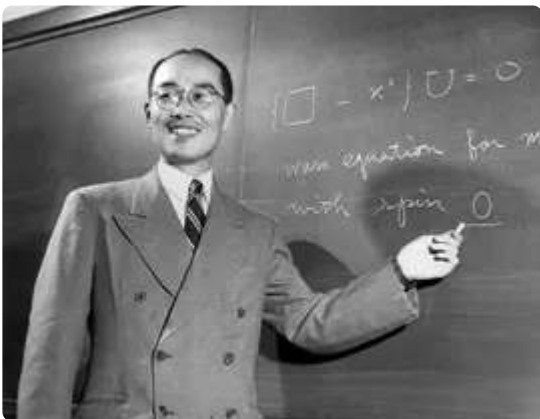
xxxxxx xxxxxxxxxx xxxxxx xxxxxx xxx xxxxxx xxxxxxxxxx xxxxxx

xxx xx xxxxxx xxxxxx xxx xxxxxx xxx xxx xxx xxxxxx xxx xxxxxx

xxxxx

.4.2 xxx

xxx xx xxxxxx xxxxxx xxxxxx



xxxxx 1935 xxxxxx xxxxxx

xxxxxx xxxxxx 5 xxx xxxxxxxxxx

xxxx xxxxxxxxxx xxxxxxxxxx

xx xxxxxxxxxx xxxxxxxxxx

xx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx

xxxxxx xxx xxxxxxxxxx xxx xxxxxx

xxxx xx xxxxxxxxxx xxxxxxxxxx xxxxxx

xxxxxx xxxxxx xxxxxxxxxx xxx xxxxxx xxxxxxxxxx xxxxxxxxxx

xxxxxxx' xxxxxx xxxxxx xxxxxxxxxx xxxxxx xxxxxxxxxx xxxxxxxxxx

xx xxxxxx xxxxxx xxxxxx xxx xxxxxxxxxx xxxxxxxxxx xxx' xxxxxx

xxxxxx xxxxxx) xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx ⁽¹⁾ xxxxxx xxx xxx

××× ××× ×× ××××××¹ ×××××××× ××× ×× (×××××

××× ×××××××× ×××××

(××××× ××× ×××× ××××× ×××××) '×××××' ××××× ××××× ××××× (1)

×××× ×××××× ××× ××× ××× ××× ××××× ×××××× ××××× ××××××
××××××× ×××××××××× ××××× ×××××× ×××××× ×××××× ×××××× ××××××

××× ×××××××× ××× ××××× ××× ××××× ×××××× ××××× ××××××

×××××× '××× ××××××) '××××××× ××× ×××××××××××××× '××××× ××× ××××××××

× ('××××××

××××× ××× ×××× ×××××××× ××××× ××××× ×××××××× ××××× ×××

×××× ×××× ××× ×××××× ××××××××× '××××× ××××× ××× ××××× ×××××

××× ××××××××××× ×××××× ××××× ××××× ×××××××××× '×××××××

×××××× ××× '×××××× ××× ×××××××× ×××××× ××× ×××××××××××

%99 ××× ×××××× ×××××× ××××× ×××××××××× ××× ××××× ××××××××

×××× ×××××× ×××××××× ××××× ××××× ××× ××××××××

×××××××××× ××× ××××× ×××××××× ×××××× ××× ×××××××× ' (

'××××× ×××××× ××× ×××

×××× ×××××× ×××××× ××××× ×××××××× ××× ××××× ×××××××× (2023)

××××

□□□□□□ □□□□□□□ :□□□□

.4.3 ××××

×××××××× ××× ××× ×××××××××××××××××××××× ∞ :×××××××××

××××

×××××× ××× ×××××××××× ×××××××× ××× ×××××××× ××××× ××××××

×××××××× ×××××××× ××× ×××××× ××× ××××××××××××××××××××××××

xx xxxxxxxx xxxxxxxx xxxxxxxxxx ∞ xxxxxxxxxx xx xxxx
xxxxxxx xxxxxx xxxxxx xxxxxx xx xx xxxxxxxx xxxxxx
xx xxxxxx xx xxxxxx xxxxxx xxxxxx xxxxxx xx xxxx xxxxxx
xxxxxxxxxx :xx xxxxxxxxxx

- xxxxx xx xxxxxxxx xx xxxx xx xxxxxxxx xxxxx 1979


- xxxxx xxxxxx xxxxxx xx xxxx xxxxxxxx xx xxxx xxxxxxxx
xxxxxxxxx xxxxxxxxxx xx xxxxxxxx xxx xx xxxxxx xxxxxxxx xx
xxxxxxx xx xxxxxx xxxxxxxx xx xxxxxx x xxxxxx xxxxxx
xxxxxx xxxxxx xxxxxxxxxx xxxx xxxxxx xxxxxxxxxx xxxx xxxx
xx xxxxxxxx 'xxxxxx xxxxxxxx xx xxxx xxxxxxxxxx' xxxx
xxxxxx xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx xx (xxxxxxx) xxxx
xxxxxx xx xxxxxx xxxxxxxxxx xx xxxxxx 'xxxxxx' xx xxxx xx
xxxxxx

xxxxxxxxxxxxxx xxxx xxxx xxx xxxxxx xx xxxxxx xx xxxxxxxx
x xxxx xxxxxx xxxxxx xxxxxx xx 'xxxxxxx' xxxxxx xx
xxxxx xxxxxx xxxxxx xxxxxx xx xxxxxx xxxxxxxxxx xxx xxxx
xxxxxxx xxxxxx xxxxxxxxxx xx 'xx xxxxxxxx xxxxxxxxxx' xx
xxxxxx xxxxxx xxxxxxxxxx xxxxxx xxxxxxxxxx xxxxxxxxxx-xxxxxxx
xxxxxx xxxxxx xxxxxx xxxxxx xxxxxx xxxxxxxx xxxxxx xxxx
xx xx xxx xxx xxxxxxxx xxxxxxxxxx xxxxxx xxxxxx xxxxxxxxxx
xxxxx xxxxx xxxxxx xxxxxxxxxx xxxxxx xxx xxxxxxxxxx xxxxxxxx
xxxxxxx xxx xxxxxx xxxxxxxxxx xxxxxx xxx xxxxxxxxxx xxxxxx
xxxxx xxxxxx xxxxxx xxxxxx xxxxxxxxxx xxx xxxxxx xxxxxxxxxx
xxxxxx xxx xxxxxx xxxxxx xxxxxxxxxx xxxxxxxxxx-xxxxxxx
xx xxxxxxxxxx xxxxxx xxxxxx xxx xxxxxxxxxx xxxxxxxxxx
xxxxx xxxxxxxxxx xxxxxx xxxxxx xxx xxxxxxxxxx xxxxxxxx

×× ××× ××× ×× ××××× ×× ××× ×××××× ×× ×××××× ××
×× ×××× ××××× ×××× ×× ××××××× ××××××××
××× ×××××× ×× ××× ××××× ××××××× ×× ×××××
×× ×××× ×××××××× ×× '×××××× ×× ×××' ×× ××××××
×× ××××× ×× ×× ×××× ××××× ×× ×× ×××× ××××××××
×× ×××× ×× ××××× ×× '×××××' ×× ×××× ×××××××× ×××××
×× ×× ×××××××× ××××× ×××× ××××××× ×× ×× ××××××
××××× ×× ××××× ××××× ×× ×× ××××× ×× ××××× ×××
×××××× ×××××× ××××× ××××××
××××× ×××× ×× ××××× ×× ××××× ×× ××××××××× ××
×××××××× ×××××× ××××× ×× ×××× ×× ×××× ××××
××××× ×××× ×××××××× ××××××××× ×××× ××××××××
×× ×××××× ×××××× ××××× ×××× ××××××××× ××××××××
×× 2019 ××××× ×× ××××× ×× ×××××× ×× ××××××××××
××××× ××××× ×××××××××' ×××××× ×× ××× ××××××
×× ×××× ××××× ×××× ×××× ×××× ×××××' ××××××
××××× ×× ×××××××× ×××× ×× ×××× ××××× ×× ××××××××
:×× ×××××

×× ×××× ×××××× ×××× ×××××× ××××××××× ×××××
××××××××× ×× ×××××××× ×× ××××××××× ×× ×××××× ××
×××× ××× ××××× ××××××××× ××××××× ×××××××× ××
×× ××××× ××××× ×××××× ××××× ××× ××××× ×××××××
××××××× ××× ×××××× ×××××× ××× ××××××××× ×××××××××
××× ×××× ××××× ××××××××× ×××××××××× ×××××××××
× (×××××× ×××××× ××× ××××××××××××) ××

XXXXXXXXXX XX XXXX XX XXXX XXXX XXXX XXXX XXXX XXXX XXXX
:XX XXXX XX XXXX XXXX XXXX XXXX XXXX XXXX XXXX

XX XXXX XX XXXX XXXX XXXX XXXX (2025)
XX XXXX XX XXXX XXXX XXXX XXXX :XXXX
XXXX 90 XX — XXXX XXXX XXXX 
XXXXXXXXXX XX XXXX XXXX XXXX XXXX XXXX XXXX
XX

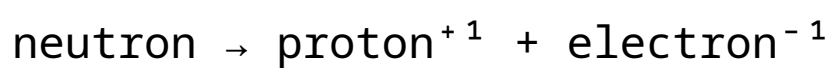


XXXXXXXXXX XX 2025 XXXX) XXXX XX XXXX XXXX XXXX XXXX XXXX
XXXXXXXXXX XX XX XXXX XXXX XXXX XXXX XXXX XX (XXXXX XXXX
XXXXXXXXXX XXXX XXXX — XX XXXX 'XXXXX XXX XXXX' XX
CosmicPhilosophy.org  :□□□

XXXXXXXXXX XX XXXX XXXX XXXX XXXX XXXX W/Z⁰
'XXXXXX XX XXXX' XX XXXX XX XXXX XXXX XXXX
XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX
XXXXXX XXXX XXXX XXXX W/Z⁰ XXXX XXXX XXXX
XXXX XXXX XX XXXX XXXX XXXX XXXX XXXX XXXX XXXX
XXXXXXXXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX
XXXXXXXXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX
XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX
XX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX
XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX
XX(XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX



:XXXXX XXXX

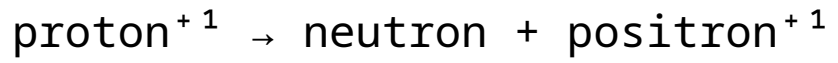


XXXXXXXXXX XX XXXX XXXX XXXX XXXX XXXX
XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX

XXXXXXXXXX-XXXXX'XX XXXXX XX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXX



:XXXXXXXXXX



XXXXXXXXXX XXXXXXXXXXXXXXXXXXXX
XXX XXX',XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXX-XXXXX'XX XXXXX
XXXXXXXXXX',XX XXXXX XXXXXXXX
XXXXXXXXXX XXXXXXXXXXXXXXXXXXXX

XXXXX',XXXXXXXXXX',XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXX XXXXXXXXXXXXXXXXXXXX
XX XXXXX XXXXXXXXXXXXXXXXXXXX)
X(XX XXXXXXXXXXXXX',XXXXXXXXXXXXXXXXXXXX',
XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX
,XXXXXXXXXX XXXXXXXXXXX',XXXXXXXXXXXXXXXXXXXX
XXXXX) XXXXXXXXXXXXXXXXXXXX',XX',XXXXX XXXXXXX
XX XXXXX XXX',XXXXXXXXXXXXXXXXXXXX',XXXXXXXXXXXXXXXXXXXX
XXXXX (XXXXXXXXXXXXXXXXXXXX

XXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXX XXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXX XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX

XX
XXXXXXXX XX 'XXXXXXXXXXXX' XXXXXXXXXXXXXXXXXXXX
XXXXXXXX XXXXX XXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX
XXXX XXXXX XXXXX XXXXX XXXXXXXXXXXXXXXXXXXX
XX) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXX XXXXXXXXXXX XXX XX (XXXXXXXXXXXXXXXXXXXX)

XXXXXXXXXXXXXXXXXXXX (2025)
coherent.ornl.gov :□□□□

XXXXXXXX XX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXX XXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXX XXXXX XXXXXXXXXXXXXXXXXXXX
XX
XX
XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX
XX XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX (N) XXXXXXXXXXXXXXXXXXXX
XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

:XX XXXXXXXXXXXXXXXXXXX XXX 'XXXXXXXX' XXXXXXXXXXXXXXXXXXX N² XXXXXXX



XXXXXXXXXXXXXXXX 77 XXXXX XXXXX XXXXX XXXXXXXXXXX
XXXXXXXX XX (XXXXXXXX) XXXXXXXXXXXXXXXXXXX 78 + (XXXXXXXX)
XXXXXXXX XXXXX



:XX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX N²




XXXXXXXX 'XXXXXXXXXXXXXXXXXXXXXXXXXXXX' XXXXXXX
XX—XXXXXXXX

xxx

▶ (xxxxxxx) xxxxxxxx
(xxxxxxx)

▶ xxxxxx N²
xxxxxxx : xxxxxx
xxxxxx (xxxxxxxxxxxxx)
xxxxxxx

▶  xxxxxxxx) xxxxxxxx
xxxxxxx (xxxxxxx
(xxxxxxx, N³, N⁴) xxxxxxxx
xxxxxxx


▶ xxxxxx
xxxxxxx - xxxxxx
xxxxxxx

xxxxxxx
xxxxxxx
xxx 2025 xxxxxx
xxx 'xxxxxxx', xxxxxx
xxxxx

xxx : xxx xxxxxxxx
xxxxxxx
xxx xxxxxxxx
xxx xxxxxxxx
xxx xxxxxxxx
xxxxxxx N² xxxxxx
xxxxxxx

(+XXXX 4\$) XXXX XX XXXX XXXXXX XX XX :XX XXXX
XXXX XXXX XXXXXXXX XXXXXXXX XXXX XX 2000
-11\$ XX XX XX XXXX XXXXXX XX XXXXXX XXXXXXXX XXXXXXXX
XXXX XXXX XX XXXXXX XX XXXXX 12

XXXX XXXX XXXX XX XXXXXXXX XX XXXXXXXX XXXX XXXX
AI XXXXXX XX XXXXX AI XXXXXXXX XXXX XX XXXXX
:XX XXXXXX XXXXXXXX XXXXXX XXXXXXXX XXXXXXXX

- ▶ XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX
XXXX :XXXX - (JUNO)
- ▶ - (XXXXXXXXXXXXXXXXXXXX XXXX TPC XXXXXX) NEXT
XXXX :XXXX
- ▶ :XXXX - XXXXXXXXXXXXXXX XXXXXXXXXXXX XXXXX XX 
XXXX XXXXXXXX

[XXXXXXXXXXXXXXXXXXXX]

XX XXXX XXXXXX XXXXXX XX XX XXXXXXXX XXXXXXXX XXXXXX
:XX XXXXXX

XXXX XXXX XX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX
XXXX XXXXXXXX XXXX XXXXXXXX XXXXXXXX XXXX XXXXX XXXXXXXX
XXXXXXXXXX XX XXXXX XXXXXXXX XX

XXXXXXXXXX XX XX XXXX XXXXXXXX XXXXXXXX (2024)
XXXXXX XXXX XX XXXX XX XXXXXXXX XXXX XXXXXXXX
XX
XXXX XXXXXX :XXXX

2021
[Placeholder text block]

[Placeholder text block]

.7.1 [Placeholder]

[Placeholder text line]

[Placeholder text block containing GMODEbate.org and a butterfly icon]

XXX'

XXXXXXXXXX

...

XXX'

XXX

...

XXXXXXXXXX XX'

XXX

...

XXX'

XXX

XXX

XXXXX

XXXXXXXXXX XX

XXXXXXXXXXXXXXXX  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

XXX (XXX

XXXXX

XXXX XX.XXXXXXXXXXXXXXXXXXXXX 2020

XXXX XX XX XXXXXXXXXXXXXXX

XXXXXX XX XX XXXXXXXXXXXXXXX

XXXXXX

Neutrinos & consciousness: fundamental link neutrino and biological cell? [closed]

Asked 5 months ago · Active 5 months ago · Viewed 108 times

 Closed. This question is [off-topic](#). It is not currently accepting answers.

xx xxxxxx xx xx xxxxxxxxxx xx xxxxxx xx xxxxxxxx xx
xxxx xx xxxxxx xx xxxxxxxx xxxxxx xxxxxx xx xxxxxxxx
xxxxxxx xx xxxxxx xxxxxx xxxxxx xxxxxx xxxxxx xx xxxxxxxx
xxxxxxx xxxxxx xx xxxxxx xxxxxx xxxxxx xxxxxx xxxxxx xxxxxx
xxxxxxx 'xxxx xxxxxx xx xxxxxxxx' xxxxxx xxxxxx xxxxxx xxxxxx
xxxxx xxxxxx

xxxx xx xxx xxx xxxxxxxx xxxxxxxx xxxxxx xx xxxxxxxx
xx xxxxxxxxxx xxxxxx xxxxxxxx xx xxxxxxxx xx xx xxxxxx
xx xxxxxxxx xxxxxxxx xxxxxxxx xxx xxxxxxxx xxxxxx xxxxxxxx
xxxx xxxxxxxx xx xxxxxx xxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
xxxxxxx xxx xxxxxxxx xxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
xxxxxxx xxx xxxxxxxx xxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx

xx xx xxxxxx xxxxxxxx xx xxxxxxxx 'xxxxxxx' xx xxxxxxxx
xxxx xxxxxxxxxx xx xxxxxxxx xxxxxxxx xxxxxxxx xx xxxxxxxx
xxxxxx xx xxxxxxxx xx xxxxxxxx xxxxxxxx xxxxxx xxxxxxxx xxxxxx
xx xxxxxx xxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
xxxxx xxx xxxxxxxx xxx xxxxxxxx xxx xxxxxxxx xxxxxxxx xxxxxxxx
xxxx xxxxxx xxxxxx xx xxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
xxxxxxx xxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
xxxxx

xx xxxxxx xxxxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
xxxxxxx xxxxxxxxxx xx xxxxxxxx xxx xxxxxxxx xxxxxxxx
xxxxx xx xxxxxx xxx xxxxxxxx xxxxxx xxxxxxxx xxxxxxxx 'xxxxxxx'
xx xxxxxxx xxxxxx' xxxxxxxx) xxxxxx xxxxxxxxxx xxxxxxxx
xx xxxxxx xxx xxxxxxxx xxx xxxxxxxx ('xxxxxxx xxxxxxxx
xxxxx

XXXXXXXXXX XXXX XXXXXX XX XXXXXXXXXXXXXXXX XX XXXXXXXX XXXXXXXX

X(XXXXXXXX XXXX XXXXX) XX XXXXX XXXXXXXXXXXX XXXX XXXXXXX

XX XXXXXXXX XX XX XXXXXX XX XX XXXXXXXX XXXXXXXX XX XXXXXXX

XX XXXXXXXX XXXX XXXX XXXXXXXX XXXX XXXXX XXXXXXXX

XXXXXXXXX' XX XXXX XXXXXXXX XXXXXXXXXXXX XX XXXXXXXX XXXXXXXX

XXXXXXXXXX XXXX XX' XXXXXXX

:XXXXXXXX XXXXXXX XX XXXX XXXXXXX XXXX  XXXXX

XXXXXXXX XX XXXXXXX XXXXXXX XX XXXXXXXXXXXXXXXX



XX XXXXXXXX XXXXXXXX XX XXXXXXXX XX XXXXX XXXXXXX

XXX XX XXX XX XXXXX XX XXXXXXX XXXX XXXXX XXXXX

XXXX XXXXX XX XXXXXXXXXXX XXXX XX XXXXXXX XXXXXXX

XXXX XXXXXXXX XX XXXXXXX XXXXXXXX XXXX XXXXXXXX

XXXXXXXX XXXX XX XXXXX XX XXXXXXXX XX XXXXXXXX XX XXXXX

XXXXXXXXX XX XX XXXXXXX XXXXXXXX XXXX XX XXXXXXXX XXXX XX

XX XXXXXXX XXXXXXXX XX XXXXX XXXXXXX XXXXX XX XXXXXXXX

XX XXXXXXXX XXXXXXX XXXXX XXXXXXX XX XXXXXXXX XXXXXXX

XXXXXX XX XXXXXXX XXXXXXX XXXXXXXX XXXX XXXXX XXXXXXXX

XXXXXXXXX XXXX

XX XXXXX XXXXXXX XXXXXXX XXXXX XXXXXXX XXX XXXXXXXX XXXXX

XX XXXXXXX XX XXXXXXXX XXXX XXXXXXXX XXX XXXXXXXX XXX XXXXXXX

XXXX XXXXXXX XXXXXXXX XX XXXXX XXXXXXX XXXXXXX XXXXXXX

XXXX XXXXXXXX XXXXXXXX

:XX XXXXXXX XXXXX XXXXX XXXXX XX XXXXXXX XXXXX XXXXXXX

XXXXXXXXXX XXXXXX ...XXXXX':XXXXXXXX XX XXXXXXXX

XXXX XXXX XXXXXX XXXX XXXX XXX XXXXXX XXXXXXXX XXXXXXXX XXXXXXXX

XXXXXXXXX XXXXXXXXXX XX XXXXXXXX XXXXXXXX XXXXXXXX XXX

XX XX XXXXXX XXXXXXXX [XXXXXXXXXXXX XXXX] XX XXXX

XXXX XXXX XXXXXXXX XXXXXXXX XX XXXXXXXX XX XXX XXX

XXXX XXXX XXXXXXXX XXXXXXXXXX XXXXXXXX XXXX XXX XXXXXXXX

, XXXX XXXXXXXX XXXXXXXX XXX XXXXXXXX XXXXXXXX

XXXX XXXX XX XXXXXXXX XXXX XXX XXXXXXXX XXXXXXXX XXXXXXXX

XXXXXXXXX XXXX XX XXXXXXXX XX XXXXXXXX XXXXXXXX

XX XXXXXX XX XXXXXXX XXXXXXXXXX XX XXXXX XX XXX XXXXX'

XX XXXX XXXXXXX XX X...XX XXXXXXXXXX XXXX XXXXX XXXX

XXXX XXXXXXX', XXXX XXXXXXXX XX XXXXXXXXXX XXXXXXX XXXXXXX

XXXX XXXX XXXXXXXXXX XX XXXXXXXXXX XX XXXXXXXXXX XXXXXXX

XXXXXX XX XXXXXXXX XX XXXXXXXX XXXXXXXX XXXXXXXXXX

XXXXXX

XXXXXXXXXX XX XXX XXXXXXX XXXXXXXXXX (2024)

XXXXXX XXXX XXX XXXXXXX XXX XXXXXXXXXX XXX XXXXXXXXXX

XX


□□□□ □□□□ :□□□□

CosmicPhilosophy.org

[/https://pk.cosmicphilosophy.org](https://pk.cosmicphilosophy.org)

xxxx xxxxxxxx xx 2025 xxxxxxxx 22

:xxxxxxxx xxxxxx xxxxxxxx

- ▶ xxxxxxxxxxxx xx xxxxxxxx xxxxxx xxx :GMODebate.org 
xx "xxxxxxxx xx xxxxxxxx xx xxxxxxxx" xxxxxxxxxxxx
xxxxxxxx xxxx x "xxxxxxxx xxxxxxxx xxxxxxxx" xxxxxxxx
xxxxxxxxxxx xxxxxxxxxx xx xxxxxxxx xxxxxx xx xxxxxxxx
xxx xxxxxx xxxxxxxxxx xx