´/ -a | ; &/ Ì)3

a à7œ[1U2] EFþ Ö[3]

1. 100190 2. ( )
100049 3. 100190

K Œ

(3 3) (û
) 1953-1955
K - 2
(parity) “ ” - 2 2
1957 2 23
)
Œ Œ
2 K

“ 1957 Œ
2 Œ
- 2 1956 4
”

(P)

1927

(E.P. Wigner)
(Charge Conjugation) -
(CP)

- 2

Ô Ã[/Ä á \ & n _,X ¤ Î â rP`
P`A•

- 2

- 2
1956 1943
1946

(E.Fermi) 1950

(1948)

(E. Teller) (1942
1944)

))

1956 - 2
(1)

)))

1 1956

(https://www.bnl.gov/bnlweb/history/nobel/1957.php.)

1956 10 (Physical Review) 104
(Question of parity Conservation in Weak Interactions) ß

(NBS
National Bureau of Standards) (E. Ambler)
60
à 1956
- 2 - 2
á

1934~1948
Konopinski-Uhlenbeck

“
”

1956
“
”(2) 1957 1 2~8

(R. Garwin) (L.Lederman) (M.
Weinrich)
â
1957 1 15
(3) (I.I.

Ý Ã4§ 3AÁ

60

CP

CP

CP CP

CP CP

CP

CP

CP CP CP

CP

K

CP CP

(super weak interaction)

CP

CP

CP CP

CP

CP

K

CP SLAC

KEK B B

CP K

CP

CP

CP

ûl=1/2

CP

B CP

C P

T CP PT TC CT

CPT

2006 April

Meeting “ 50 ”

New Insights to

Old Problems

Chinese Physics B

T.D.Lee. New insights to old problems. Chin.

Phys.2006, 15(6): 1125-1133.

“ 50

”

21

“

20 50

”

20

21

95

ï50 ´([

ß T. D. Lee, C. N. Yang, Question of Parity Conservation in Weak Interactions, Phys. Rev. 104, 254 (1956).

à C. S. Wu, R. W. Ambler, D. D. Hoppes & R. P. I Judson. Phys. Rev. 105, 1413 (1957).

á C. S. Wu, Adventures in Experimental Physics (Vol. Gamma), ed. B. Maglich, World Science Communication, Princeton, 1972, p. 101.

â R. L. Garwin, L. M. Lederman & M. Weinrich. Phys. Rev. 105, 1415 (1957).

ã J. L. Friedman and V. L. Telegdi, Phys. Rev. 105, 1681 (1957).

ä A. Franklin, Studies in History and Philosophy of Science 10, 201-257 (1979).

å K. Lande, E. T. Booth, J. Impeduglia, L. M. Lederman, and W.-Chinowsky, Phys. Rev. 103, 1901 (1956).

æ T. D. Lee, R. Oehme and C. N. Yang, Phys. Rev. 106, 340 (1957).

ç J. H. Christenson, J. W. Cronin, V. L. Fitch, R. Turlay. Phys. Rev. Lett. 13, 138 (1964).

è T. D. Lee, C. N. Yang, Parity Nonconservation and a Two-Component Theory of the Neutrino, Phys. Rev. 105, 1671 (1957).

™ T. D. Lee. Phys. Rev. 8, 1226 (1973); Phys. Rep 9, 143 (1974).

š ~ oF ƒ :‡ , a q VB .)0 , =)0 ¼2Â € F+| . G Ü ÖG Ü W – *(x/n , 19921.

› Y. L. Wu and L. Wolfenstein, Sources of CP Violation in the Two-Higgs Doublet Model, Phys. Rev. Lett. 73, 1762 (1994); L. Wolfenstein and Y. L. Wu, Phys. Rev. Lett. 73, 2809 (1994); Y.L. Wu, A Model of CP Violation, pp 80, CMU-HEP 94-01, hep-ph 9404241, 1994.

œ M. Kobayashi and T. Maskawa, Prog. Theor. Phys. 49, 652 (1973).

•• L. Wolfenstein, Phys. Rev. Lett. 13, 562 (1964).

ž NA48 Collaboration, J.R. Batley, et al., Phys. Lett. B 544, 97 (2002); KTeV Collaboration, Alavi-Harati, et al., Phys. Rev. D 67, 012005 (2003).

Ÿ Belle Collaboration, K. Abe et al., Phys. Rev. Lett. 93, 021601 (2004); BaBar Collaboration, B. Aubert, et.al., Phys. Rev. Lett. 93: 131801 (2004).

¢ Y. L. Wu, Phys. Rev. D 64 016001 (2001); Y. L. Wu, invited talk at the 26th Intern. Conf. on High Energy Physics, Dallas, Texas, USA, 1992, ICHEP 92 Proceedings, P 906, edited by James R. Sanford, (American Institute of Physics); invited talk at the 25th Int. Conf. on High Energy Physics, ICHEP 90 Proceedings, pp 1230, edited by K.K. Phua and Y. Yamaguchi, (World Scientific Pub. Co.)

¡ Y. L. Wu and Y. F. Zhou, Phys. Rev. D 71 021701 (2005).

˜ Y. L. Wu, Hyperunified field theory and gravitational gauge-geometry duality, Eur. Phys. J. C 78, 28 (2018) (arXiv:171204537); Y. L. Wu, The foundation of the hyperunified field theory I - fundamental building block and symmetry, arXiv:210405404; Y. L. Wu, The foundation of the hyperunified field theory II - fundamental interaction and evolving universe, arXiv:210411078

8 1951

1958 1973

1960

9 1953

( )

:

; https://www.nobelprize.org/prizes/physics/1957/ceremony-speech/.

< 1956 12 1957 4

(2018186)

1987