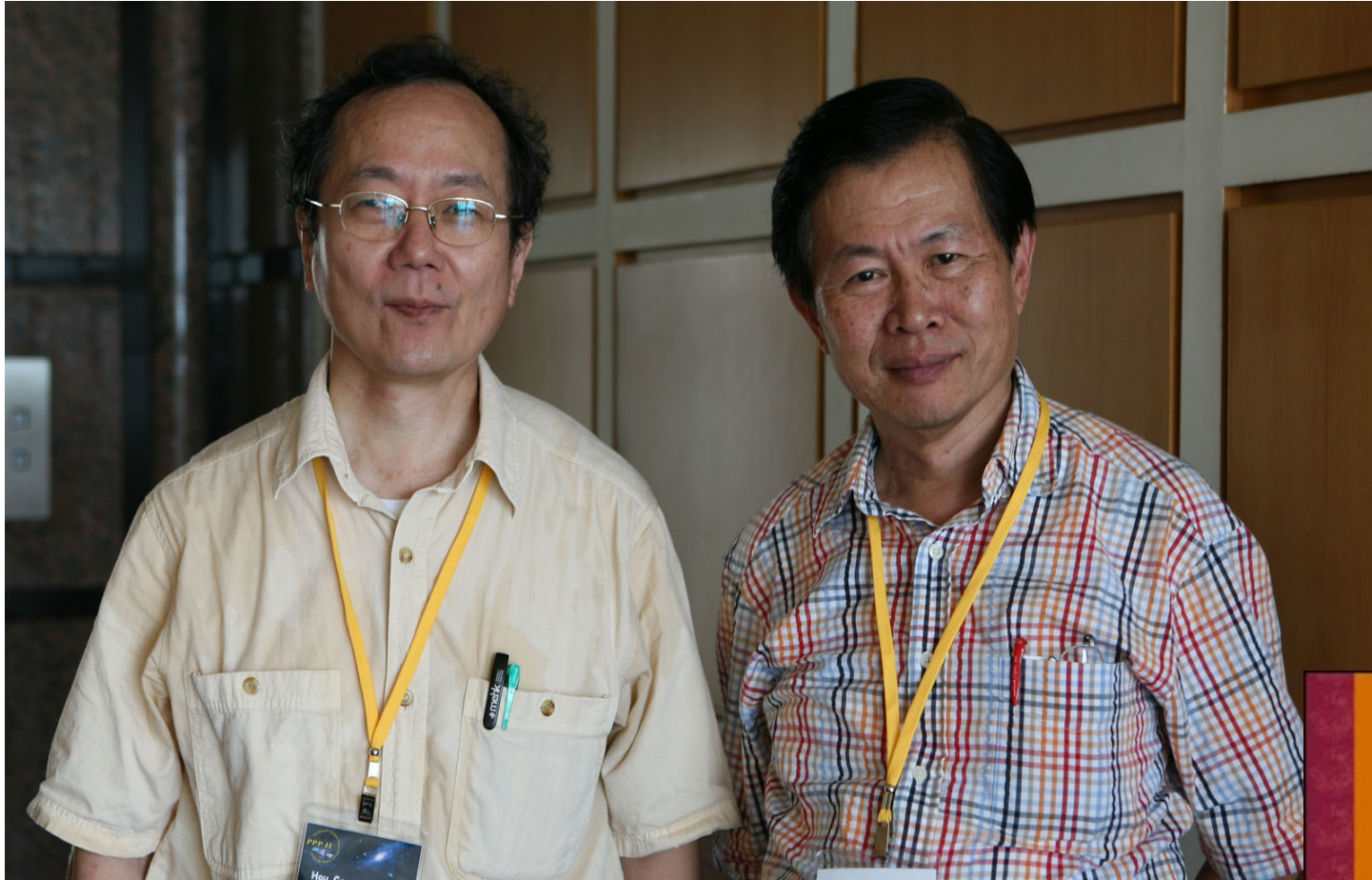


# Hai-Yang Fest

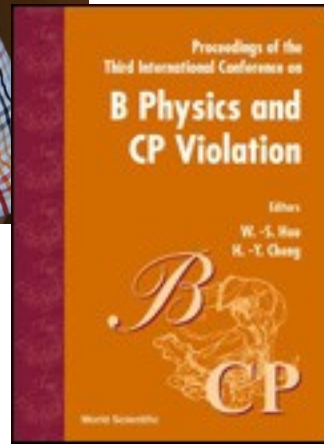
海洋？

海揚！



**George Wei-Shu Hou (NTU)**

14 May 2015



成大學士	1971	
清大碩士	1975	
Purdue	1980	
	1980-83	
Brandeis	1983-85	
Indiana	1985-87 (Chest Davis Fellow)	
ASIoP	1987-	
		NSC 傑出獎s
	1994	MOE 學術獎； 物理學會會士
	1994-96	NSC Physics Panel ( <u>Chair, 1994-95</u> )
		Chief Editor, Chinese Journal of Physics
	'99-'00	Deputy Director of IoP
	2013-	Distinguished Fellow

# Contact with Experiment + Independence Early On

## THE EFFECTS OF LONG-RANGE FIELDS ON THE KAON-ANTIKAON SYSTEM

Cheng, Hai-Yang. Purdue University, ProQuest, UMI Dissertations Publishing, 1980. B113657.  
under Ephraim Fischbach

### □ Abstract (summary)

Given the suggestion of the possibility that the neutral kaon mass difference  $(\Delta m)$ , the decay width difference  $(\Gamma)_L - (\Gamma)_S$ , and CP violation parameter  $(\eta)_{+-}$  are momentum-dependent, the implication is that there must exist some new long-range force. We investigate the effects of such external field on the K-K system by considering the most general K-K' mixing mass matrix which includes four external potentials  $d$ ,  $u(1)$ ,  $u(2)$ , and  $u(3)$ . The sources and the properties of the long-range fields are discussed and a methodology of analyzing the phenomenological model and data is given. A further experiment is proposed to probe the  $u(i)$ . We find effects which depend on the gradient of the long-range potential and thus they provide useful information on the range of the external potential. Such an experiment also can be used to test the Einstein-Podolsky-Rosen paradox.

PHYSICAL REVIEW D

VOLUME 26, NUMBER 1

1 JULY 1982

### CP-violating effects in heavy-meson systems

Hai-Yang Cheng

*Physics Department, Purdue University, West Lafayette, Indiana 47907*

(Received 15 December 1981)

We calculate the dilepton charge asymmetry in the neutral-conjugate-heavy-meson systems produced in  $e^+e^-$  annihilation. This asymmetry, which is a measure of the intrinsic CP violation in the mass matrix, is calculated in the Kobayashi-Maskawa (KM) model as well as the Higgs-boson model of CP nonconservation. While the charge asymmetry is small for the  $D^0-\bar{D}^0$  and  $B^0-\bar{B}^0$  systems in both models, it is predicted to be quite large

1982-83(84) Single Author

- CPV in D/B
- Spont. CPV & Axion
- Lept. CPV
- CPV in  $K \rightarrow \pi\pi\pi$
- PQ symm.



**Fw: Greetings, congratulations on the "Hai-Yang Fest" !**

Ling-Lie Chau, 5/13

"On this festive occasion, I would like to congratulate Hai-Yang for his accomplishments and for the good he has done for Academia Sinica and the academic environment in Taiwan.

I am happy that Hai-Yang was brave enough to take my encouragement to join Academia Sinica, which was not so popular a thing to do at the time. (Here I would like to give my warmest best regards and thanks to the precious Institute Director Er K. Lin, who had graciously hosted many of my visits before and after hiring Hai-Yang. I wish him a soon recovery.)

I also would like to thank Hai-Yang for liking my quark-diagram method And for the many happy productive collaborations and for continuing to push it forward.

Best wishes to Hai-Yang and his family for many happy years!"

find a t.m. yan and hai-yang che Brief format  [Easy Search](#)  
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### 1. Heavy quark symmetry and chiral dynamics

Tung-Mow Yan (Taiwan, Inst. Phys. & Cornell U., LNS), Hai-Yang Cheng (Taiwan, Inst. Phys.), Y.C. Lin (Taiwan, Natl. Central U.), Hoi-Lai Yeu (Taiwan, Inst. Phys.)  
1992. 44 pp.

Published in *Phys.Rev. D46 (1992) 1148-1164*, *Phys.Rev. D55 (1997) 5500-5508*  
CLNS-92-1138, IP-ASTP-03-92

DOI: [10.1103/PhysRevD.55.5851](https://doi.org/10.1103/PhysRevD.55.5851), [10.1103/PhysRevD.46.1148](https://doi.org/10.1103/PhysRevD.46.1148)

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[KEK scanned document](#); [CERN Document Server](#); [ADS Abstracts](#)

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### 2. Heavy flavor conserving nonleptonic weak decays of heavy mesons

Hai-Yang Cheng, Chi-Yee Cheung, Guey-Lin Lin (Taiwan, Inst. Phys.), Y.C. Lin (Taiwan, Natl. Central U.), Tung-Mow Yan (Taiwan, Inst. Phys. & Cornell U., LNS), Hoi-Lai Yeu (Taiwan, Inst. Phys.)  
1992. 26 pp.

Published in *Phys.Rev. D46 (1992) 5060-5068*  
IP-ASTP-07-92, CLNS-92-1153

DOI: [10.1103/PhysRevD.46.5080](https://doi.org/10.1103/PhysRevD.46.5080)

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[KEK scanned document](#); [CERN Document Server](#); [ADS Abstracts](#)

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### 3. Chiral Lagrangians for radiative decays of heavy hadrons

Hai-Yang Cheng, Chi-Yee Cheung, Guey-Lin Lin (Taiwan, Inst. Phys.), Y.C. Lin (Taiwan, Natl. Central U.), Tung-Mow Yan (Taiwan, Inst. Phys. & Cornell U., LNS), Hoi-Lai Yeu (Taiwan, Inst. Phys.)  
1992. 30 pp.

Published in *Phys.Rev. D47 (1993) 1030-1042*  
CLNS-92-1158, IP-ASTP-13-92

DOI: [10.1103/PhysRevD.47.1030](https://doi.org/10.1103/PhysRevD.47.1030)

e-Print: [hep-nu/9209262](https://arxiv.org/abs/hep-nu/9209262) | PDF

## Heavy Quark Symmetry and Chiral Dynamics

# Academic Impact: Flavor/CPV

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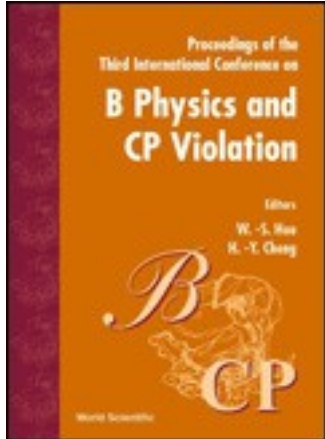
Chun-Khiang's  
Chua / Charge

海洋？

me, personal

海揚！

- acquaint, probably 1986 or 87
- 1994, HY as 審議人: allowed 追加預算 for formative [T-Belle Project](#)
- 1998 Topical Program / [PPP4 Workshop](#) @ Kaohsiung
- 1998-99: my leave to BNL/Cornell (Sept-Feb)
  - [Dinner@Home](#); my flu ... [Thanx, Yann-Chiou!]
- 1999 [BCP3](#) @ Taipei
- 2003 B -> cqqq + X



*Thank you,*

*Hai-Yang!*

*Sail the High Seas!*

*But don't forget the BEACH.*

**1. Particle physics phenomenology. Proceedings, 4th International Conference, Kaohsiung, Taiwan, June 18-21, 1998**

Hai-Yang Cheng (ed.), Wei-Shu Hou (ed.) (Taiwan, Natl. Taiwan U.), Hsiang-Nan Cheng Kung U.), Guey-Lin Lin (ed.) (Taiwan, Natl. Chiao Tung U.). 1999. 356 pp.  
Prepared for Conference: [C98-06-18.2](#) (Singapore, Singapore: World Scientific (1999))  
[Contributions](#)

[References](#) | [BibTeX](#) | [LaTeX\(US\)](#) | [LaTeX\(EU\)](#) | [Harvmac](#) | [EndNote](#)

[詳細記錄](#)

**2. B physics and CP violation. Proceedings, 3rd International Conference, Taiwan, December 3-7, 1999**

Hai-Yang Cheng (ed.) (Taiwan, Inst. Phys.), Wei-Shu Hou (ed.) (Taiwan, Natl. Taiwan U.). 2000. 356 pp.  
Prepared for Conference: [C99-12-03](#) (Singapore, Singapore: World Scientific (2000))

[References](#) | [BibTeX](#) | [LaTeX\(US\)](#) | [LaTeX\(EU\)](#) | [Harvmac](#) | [EndNote](#)

[詳細記錄](#)

**3. B decays as spectroscopy for charmed four quark states**

Hai-Yang Cheng (Taiwan, Inst. Phys.), Wei-Shu Hou (Taiwan, Natl. Taiwan U.). 2003. 12 pp.  
Published in *Phys.Lett. B* **566** (2003) 193-200

DOI: [10.1016/S0370-2693\(03\)00834-7](#)

e-Print: [hep-ph/0305038](#) | [PDF](#)

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[ADS Abstract Service](#); [Science Direct](#); [Link to WEBEDS](#)

[詳細記錄](#) - [Cited by 165 records](#) 100+

**4. Top Decays with Flavor Changing Neutral Higgs Interactions at**

Chung Kao (Oklahoma U. & Taiwan, Inst. Phys.), Hai-Yang Cheng (Taiwan, Inst. Taiwan, Natl. Taiwan U.), Joshua Sayre (Oklahoma U.). Dec 2011. 12 pp.

Published in *Phys.Lett. B* **716** (2012) 225-230