

# CURRICULUM VITA OF CHENG FANG

**Present Occupation:** Professor, Academician

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**Education:** Graduated from Department of Astronomy, Nanjing University in 1959

## **Professional Experience:**

Sept. 1959 -- Now:

Work in the Department of Astronomy, Nanjing University. Engage in the research work on solar physics. Participated in teaching the courses of “The Method of Astrophysics”, “Solar Physics” and others. Was in charge of the design and construction of the Solar Tower Telescope of Nanjing University

Apr. 1980 -- Jul. 1982:

Stayed at L'Observatoire de Paris (Meudon) as a visiting scholar, collaborating with Dr. J. -C. Hénoux, Dr. E. Ribes, Dr. M. J. Martres, and Dr. Z. Mouradian etc.

July 1988 -- June 1989:

Director of the center of Astronomy and Astrophysics, which belongs to the CCAST (World Laboratory) led by the Nobelist Professor T. D. Lee

Sept. 1990 -- Mar. 1991:

Stayed at the National Astronomical Observatory of Japan as a visiting professor, collaborating with Professor E. Hiei et al.

Nov. 1992 -- Mar. 1993:

Stayed at L'Observatoire de Paris (Meudon) as a visiting professor, collaborating with Dr. J. -C. Hénoux

June 1993 -- June 1997:

Director of the Department of Astronomy, Nanjing University

Oct. 1995:

Elected as an Academician of the Chinese Academy of Sciences

1999 -- 2002:

President of the Chinese Astronomical Society

July 2003 -- July 2009:

Elected as vice-president of the International Astronomical Union (IAU)

Nov. 2005:

Elected as a Fellowship of the Academy of Science for the Developing World (TWAS)

### **Published Articles and main achievements:**

More than 290 papers and a book of “Physics of Solar Active Regions” have been published.

He was in charge of the design and the construction of the Solar Tower Telescope of Nanjing University. The telescope was built in 1980, and as the only one of its kind in China, has been successfully put into operation.

The main research work are focused on the modeling of the atmospheres of solar activities, the diagnostics of the dynamic process and the non-thermal particles in the atmosphere of solar flares, the hydrodynamic models of flares, and the magnetic reconnection in the lower solar atmosphere etc. Using non-LTE theory, he and his collaborators have successfully developed a set of practical methods and programs that have achieved important results. A series of semi-empirical atmospheric models of solar active phenomena, such as solar flares, sunspots, plages, prominences, microflares, and Ellerman bombs, have been obtained. The method for the spectral diagnostics of non-thermal particles in flares has been investigated and proposed. The dynamic models of flares have been deduced.

### **Membership in the Professional Societies:**

A member of the International Astronomical Union (IAU), and a member of the Chinese Astronomical Society (CAS).

### **Awards**

1985: Second-place National Science and Technology Advanced Award

1995: First-place Science and Technology Awards by the Ministry of Education of China

1997: Third-place National Natural Science Award

1995, 2004: two first-place Science and Technology Awards by the Ministry of Education of China.

2004: Science and Technology Progress Award of Ho Leung and Ho Lee (HLHL) Foundation

2008: The title of “Honoris Docteur Causa of Paris Observatory”