

**“Condensed Matter Nuclear Science”
Research in China**

Normal Temperature Nuclear Fusion

Xing Z. Li

**Department of Physics, Tsinghua University,
Beijing , CHINA**

ICCF-14, Washington D.C., Aug.13 2008,

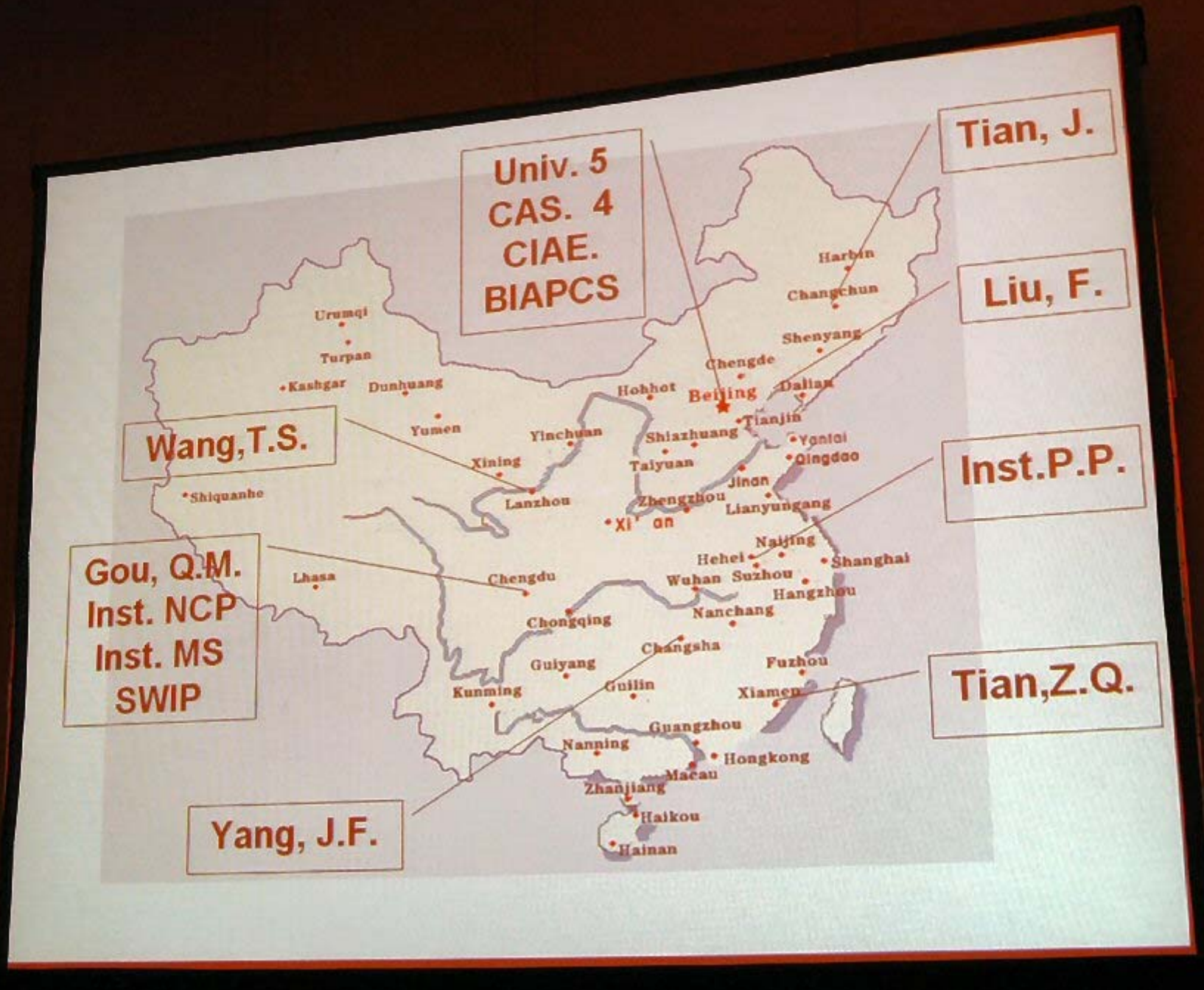
5-Features

- ❖ National Policy-- Population
- ❖ Top Scientists--- Back up
- ❖ International-- Supportive(D,B,P)
- ❖ New Approach-- Gas Loading
- ❖ Hot Fusion Scientists-- Open Mind

21 Institutions survived

First Highest National Award for Sci. & Tech.







105 persons, NSFC&MOST , May 10,1990



The 9th International Conference On Cold Fusion
May 19-24, 2002, Beijing, China

ICCF-9 Beijing CHINA , May 19 2002
111 Persons, MOST & NSFC Sponsored

中国科协第17期新观点新学说学术沙龙

2008年4月9日 北京 西泠俱乐部

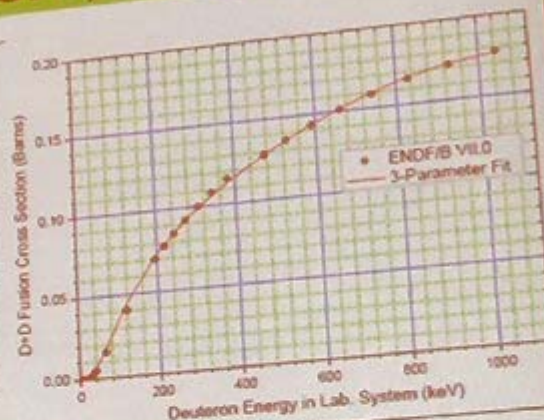
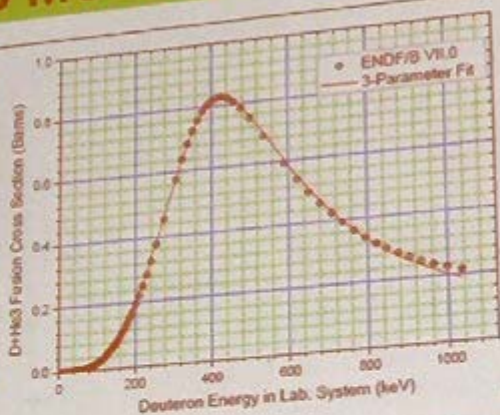
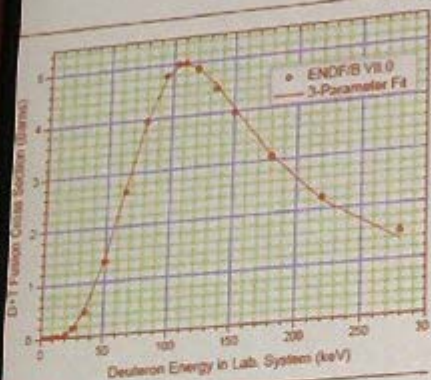


24 Persons in Beijing, April 9, 2008, CAST

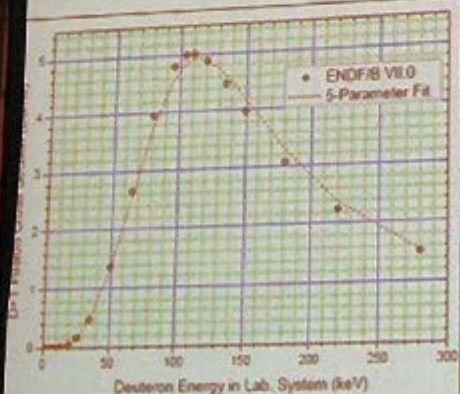
Progress in 19 Years of CMNS Research

- (1) Hot Fusion Data Justify CMNS**
- (2) Correlation btw. Flux & Heat**
- (3) Anomalies in Glow Discharge**

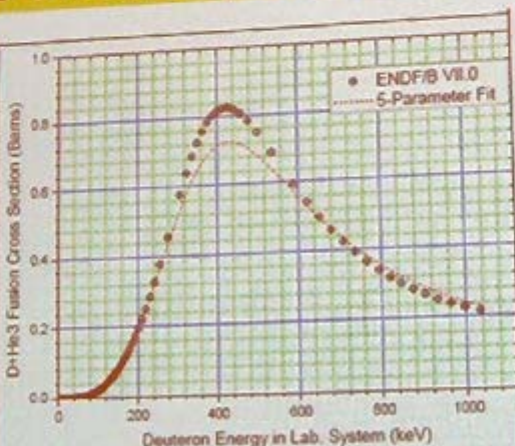
One Step Model (3 Parameters, 1995)



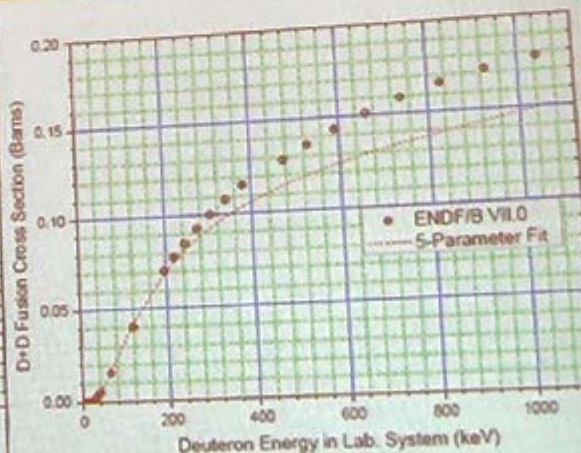
Two Step Model (5 Parameters, 1972)



D+T

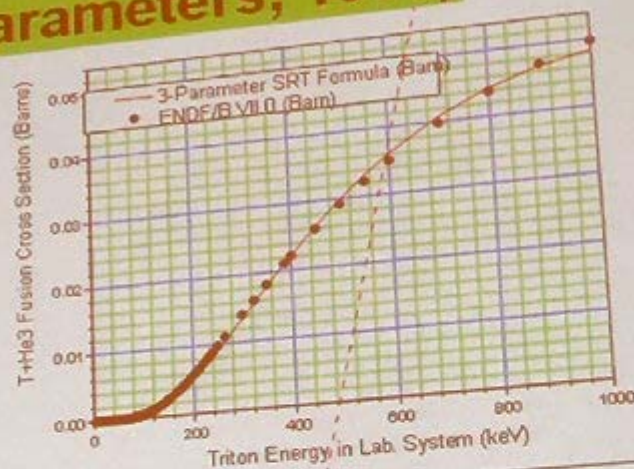
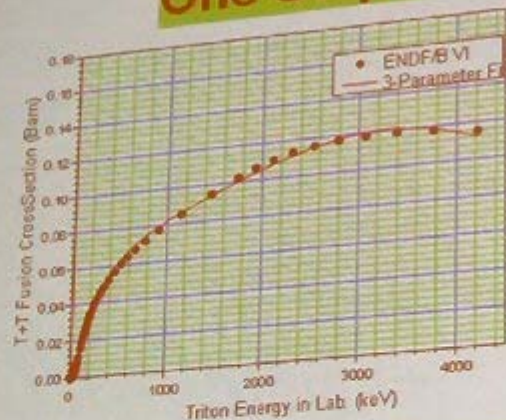


D+He3

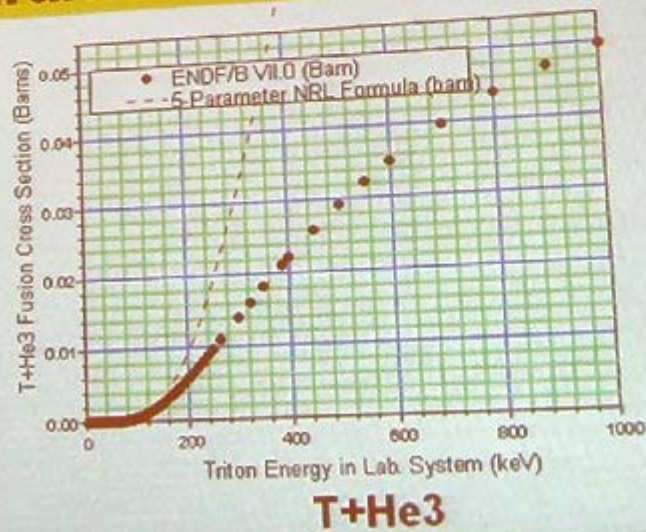
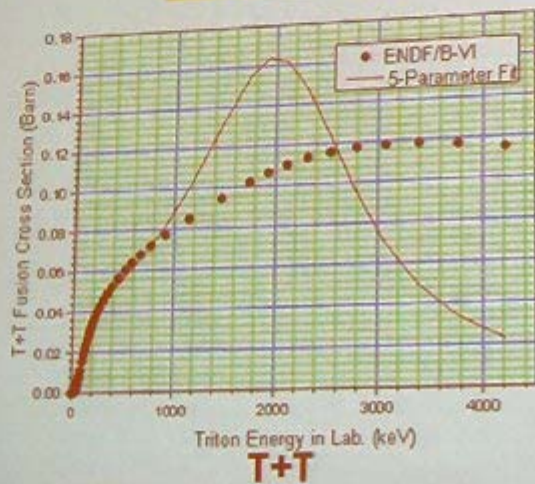


D+D

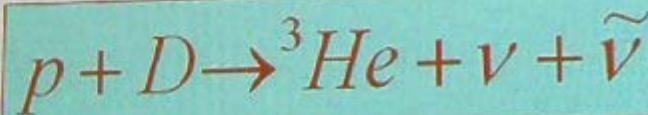
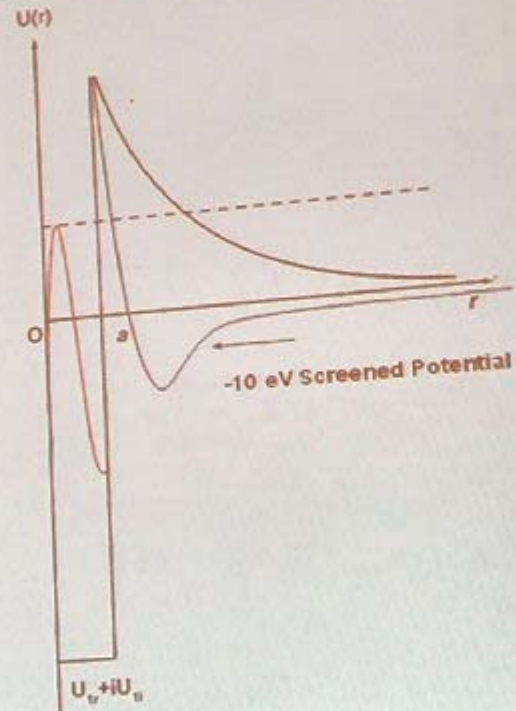
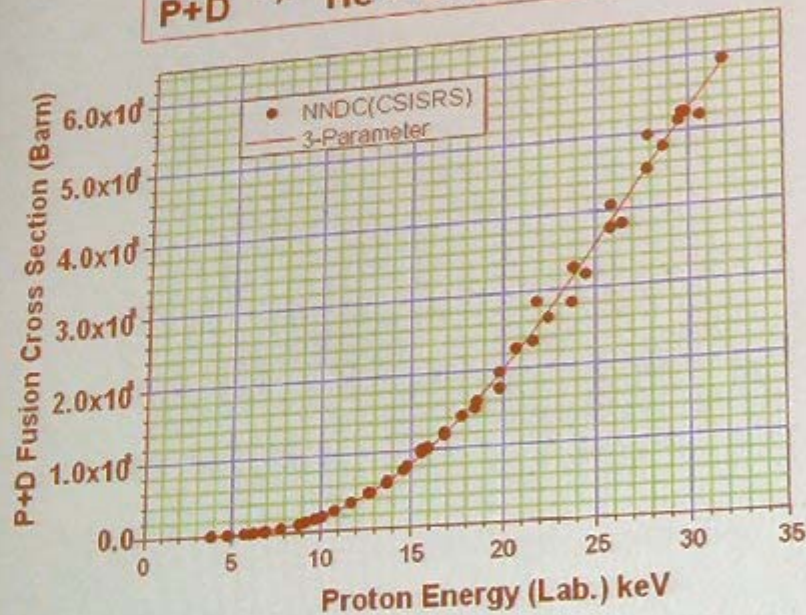
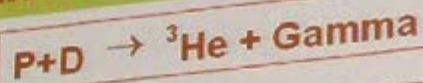
One Step Model (3 Parameters, 1995)



Two Step Model (5 Parameters, 1972)



3-Parameter Selective Resonant Tunneling Formula



$$U_r = -43.905\text{MeV}$$

$$(k_1 a_0) \sim (3\pi/2)$$

Hot Fusion Data predicts Cold Fusion

'Investigations designed to check the reported observations of excess tritium in electrolytic cells are desirable.'

----DOE, ERAB report 1989

**Harmony between Hot & Cold Fusion
is Feasible**