

# Possibilities of Expanding Cooperation with FRIB through Projects from China-side

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# Outline

- **Possible Cooperation Projects in China**
- **FRIB-CSC Research Fellow Program**
  - **lessons learnt.....**
- **What follows next .....**

# Possible Cooperation Projects in China

- **National Natural Science Foundation of China (NSFC)**
  - International Cooperation and Exchange Projects
    - key project: 200~300 kUSD/each (e.g. B. Ma, F. Xu...)
    - big project: 2~3 MUSD/each (e.g. Y. Ma)
  - Up to now, it has signed cooperative agreements and memoranda of understanding with more than 85 science funding organizations and national research institutions in 41 countries and regions.
  - Focus on the major tasks of science funding, promote the funding for "research projects" and "talent training".
  - <http://www.nsfc.gov.cn/publish/portal1/tab159/>

# Possible Cooperation Projects in China

- Ministry of Science and Technology of the People's Republic of China (MOST)
- International Science and Technology Cooperation Program (ISTCP) <http://www.istcp.org.cn/>
- Inter-organization (government) cooperation  
(e.g. LHC-CMS, ATLAS...)
- ITER...

# Possible Cooperation Projects in China

## ➤ China Scholarship Council (CSC)



- To organize the implementation of funded work on studying abroad and studying in China
- Postgraduate Scholarship Program
- International Exchange Scholarship for Excellent Undergraduates
- **International cooperation training program for innovative talents (ICPIT)**

# Possible Cooperation Projects in China

- CAS – Institutions;
- MOE – Universities
- .....



# e.g. at PKU

- **Joint Programs**

- PKU-LSE Double Master Degree Program in International Studies
- PKU-GeorgiaTech-Emory Joint Ph.D. Programs

- **Joint Research Institutes**

- **Kavli Institute for Astronomy and Astrophysics**
- PKU-UCLA Joint Research Institute in Science and Engineering

- Stanford Center at Peking University

- European University Center

- **Beijing Forum**

- **Summer School International**



# FRIB-CSC Research Fellow Program

- International cooperation training program for innovative talents (ICPIT) from CSC
  - \* designed by the applicant but to be approved by strict evaluations.
- Announced since 2014
- Project duration: 3 years/term, extendable to more terms if running in excellence



the story started.....

## RIBLL1 Collaboration meetings

Num.	Time	Add.
1	Jul. 2012	Lanzhou-IMP
2	Jan. 2013	Shanghai-SINAP
3	Aug. 2013	Lanzhou-IMP
4	Jan. 2014	Weihai-SDU
5	Jul. 2014	Tinzhu- IMP
6	Apr. 2015	Beijing-PKU
7	Nov. 2015	Lanzhou-IMP
8	Jan. 2016	Beijing-CIAE
9	Jul. 2016	Weihai-SDU
10	Jan. 2017	Beijing-BHU
11	Jul. 2017	Harbin-HEU



## FRIB-China Workshop Resolutions

1. We endorse the establishment of a FRIB-China Task Force.
2. We encourage US and Chinese science and funding agencies to include nuclear physics opportunities related to FRIB in the US/PRC joint committee on high-energy physics.
3. We recommend the establishment of prestigious postdoctoral fellowship based on the newly established government postdoctoral fellowship Program in China.
- 4 - 6. ....

# From impossible to possible

## Mission Impossible ?

- CSC support at the postdoctoral level — finding a job first !
- Major recruiting programs — having international experiences first!
- Best PhDs — most likely quitting the field and trying to go somewhere by themselves



## Joint Efforts:

- Several meetings with Mrs. Lan Ma of OIR at PKU and got strong support.
- Application was evaluated and the “innovative” way has been understood and agreed by the committee.
- Finally a face to face discussion was held at CSC to explain our special need and to find the way to match the general regulations...



## Mission Possible!

- CSC Authorized to support the fresh PhDs to apply the FRIB-CSC Research Fellow Program in a manageable project (PKU@IMP)
- Strong supports were also provided by the FRIB related US-institutions.

# The Program management



## The FRIB-CSC Research Fellow program committee

### China

Xiaodong Tang (IMP)

Furong Xu (PKU)

Yanlin Ye (PKU)

Yuhu Zhang (IMP)

Xiaohong Zhou (IMP)

Scientific Secretary: Junchen Pei (PKU)

### U.S.

G. Bollen (MSU)

R.V.F. Janssens (ANL)

B.-A. Li (TAMUC)

W. Nazarewicz (MSU)

M. Smith (ORNL)



# Basic procedure

- **Announce the notification of application**
- **Accept applications by SKLNPT**
- **Skype interview by program committee**
- **Two-way selections between candidates and host institutions in US**
- **On-line paper work at the CSC website**
- **Publicize results**

# Past two years

9 fellows fulfilled the program:

## ➤ 2016:

- Jie Chen(PKU) : ANL
- Bingshui Gao(IMP) : FRIB/NSCL
- Shilun Jin(IMP) : FRIB/NSCL
- Yi-nu Zhang(PKU) : OSU

## ➤ 2017:

- Weiguang Jiang(PKU) : ORNL/UTK
- Jing Li(PKU) : ANL
- Xinliang Yan(IMP) : ANL
- Peng Yin(IMP) : Iowa State University
- Kailong Wang(IMP): CMU

➤ hope to continue for many years.....



# Lessons learnt

- **being enthusiastic on doing some little things to help our young people to keep their hopes and dreams on nuclear sciences .....**
- **“impossible” may turn to “possible” when talking more and trying more.....**



# What follows next

- talent courses
- facility & devices
- sub-fields

Continue doing little things for a great hope.....



**Thank you for your attention!**

