

Mini-Workshop for Women in Plasma Physics (WIPP)

Be brave to pursue your dreams

---The growth experience of scientific researcher in universities of China

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Self-introduction



■ Major: Theoretical study of turbulent transport and confinement in the burning plasmas of magnetic confined fusion (MCF)

☐ Growing experience

2012.09 to 2018.06: Doctor's Degree @ HUST (Top 10)

2017.12 to 2018.03: Visiting scholar @ UCSD, USA,

• 2018.06 to 2020.11: Post-doc @ HUST, China

 2020.12 to 2023.02: Lecturer @ HUST, China (with Tenure-Track within 6 years)

 2023.03 to Now: Associate Professor @ HUST, China (without limitation of Tenure-Track)

Personal experience and interviews from some fe-male researchers (Senior professors; Young scientists; PhD student)

All ladies @ Our Lab: 芳华绝代不啻微芒 勠力同心造炬成阳



Cumulative force of female can facilitate the ignition of fusion and contribute to "artificial sun(人造太阳)" through incremental steps

Representative Chinese ladies of researchers from MCF









Senior professors (stale phase)

- Juan Huang: experimental coordinator of EAST tokamak; International cooperation with national large scientific devices
- Lu Wang: my supervisor in HUST; Joint-Supervision in PPPL (2 year) and PKU (4 year)

Academic freedom

Young professors (exploring balance → stable)

- Ruirui Ma: theorist from Southwestern Institute of Pyhsics (SWIP)
- Min Jiang: experimentalist @ HL-3/2A tokamak
- Linzi Liu: experimentalist @HL-3/2A & J-TEXT

Having young child, pregnant, considering to have child

PhD student

Jiayan Liu: under-graduate project → 2 year of PhD career, simulation@HD7

Enjoying...

Outline

Overall experience as the female researchers

Obstacles and journey to overcome them

Concluding remarks

Gender equality in both academic and life in China

■ Work: same opportunity and benefits

- Much easier to be recognized with comparable academic level
- +3 years as limit for project application
- Avoid heavy lifting.....

☐ Life: respect and support from family

- Be proud of us as a researcher / PhD
- Shared housework and bady-caring
- Spiritual attention and communication from husband/boyfriend





Don't let work bite you

☐ Growing experience in work

 Hardworking, representative from older generation of scientists in China such as Youyou Tu, winner of Nobel Prize



 No life but work (8 students in our group, at least one discussion/per week; teaching)



- Select the real and key things, following heart
- Embrace nature and reserve time for thinking
- Stay/Travel with husband, child(children), parents





Lazy young students EXIST to face the challenge during research



☐ Encourage to sense of responsibility;

MAKE RULES! Growing together with

students



The student is best production for supervisor in university!

Anxiety about OptimalChildbearing Age



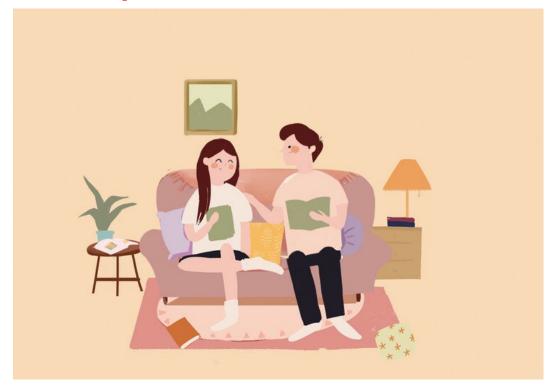
■ Whenever! Having a baby is a wonderful, wonderful process! !



- Husband may complain
- □ Love or not when having fight? (for a short moment)



- ☐ Communicate with him, express daily love and believe in love!
- Have the world of only husband and wife / per week for a moment wo baby



Balance to family care: child is growing faster; parents are getting older while being independent





Left: Caring baby during going out to attend academic conference; Right: my parents

- ☐ Support from lovely husband is key!
 - Listen → Accept → Encourage baby to be independent day by day, share work story as friends
- ☐ Say "I love you" to parents
 travel together; celebrate special days together



Lovely families are happy to be together

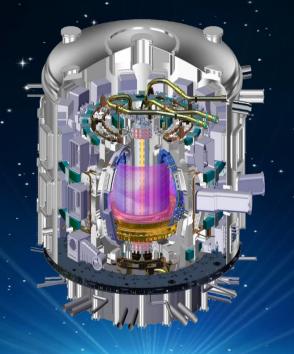
Concluding remarks

- China is growing, gender equality has been achieved in both academic and life, at least for class of researchers
- We are acting as the "Lady boss" in family, full support from husband
- □ Raising young children and caring for elderly parents are indeed the sweet burden for a given period, but they are part of the life. We are

braving to face and enjoying the burden

Gentleman also meets similar obstacles/problems !!!

Be brave to pursue your dreams



WE'LL BRING THE FUSION POWER OF THE SUN DOWN TO EARTH

谢谢