# Towards achieving Gender Equity: Activities of the Gender Group in Condensed Matter Physics



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(chair CMP)

### **ICWIP2023**

8<sup>th</sup> International Conference on Women in Physics

Online Mode 10-14 July 2023











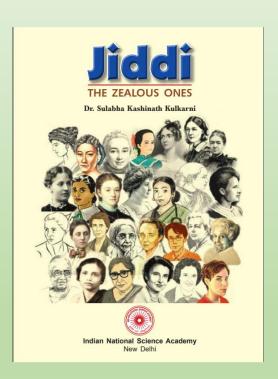


# Gender Group in Condensed Matter Physics (GGCMP)

- ➤ GGCMP is a newly formed group (in 2022)
- ➤ GGCMP is working towards understanding the factors that contribute to the inequities and underrepresentation of women in the physical sciences in general, with a special focus on the areas of condensed mater physics.
- Many of its members have been very active in promoting gender related activities at various fronts and conferences for long time. One of the activities of the group consists of carrying out a detailed Survey to understand different issues faced by women in Physics and accordingly to address them as a future course of action
- Survey aimed to assess the representation of women faculty in universities and institutes, and attempt to comprehend the nuanced challenges faced by them. These challenges encompass the availability of childcare facilities on campuses, the "two-body problem," flexible working hours, career breaks, the presence of internal complaint committees, government funding, and more.
- ➤ Survey is presently ongoing. Started in May 2023 so far 154 responses have been received. Link for Survey:

https://forms.gle/fgR92bTMQcbCAEJZ9

### **Activities and Achievements**



Sulabha Kulkarni, CMET, Pune, Mahrashtra

This book portrays the lives of courageous women who overcame numerous obstacles to achieve their goals. It offers inspiration to the younger generation, showcasing the remarkable accomplishments of women who have greatly influenced the field of science today. Each biography in this book presents captivating stories of women who serve as role models in their own right. These women all shared a common trait: their determination to overcome adversity and triumph.

Shobhana Narasimhan, JNCASR, Bengaluru,

APS fellow (2022)

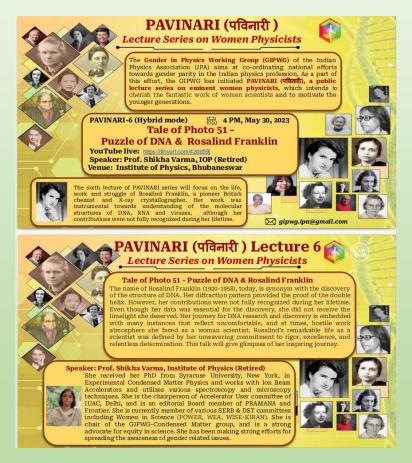
Citation: For significant contributions to promoting diversity, combating discrimination in the physics community, and conceiving and organizing Career Development Workshops for Women in Physics that have had a transformative effect on the trajectories of female physicists

## **PAVINARI Talks (CMP)**



Making a Splash in Surface Science: the Life and work of Agnes Pockels

- Arnab Bhattacharya, TIFR, HBCSE

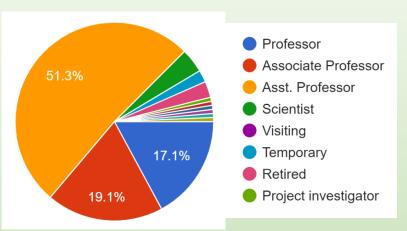


Tale of Photo 51 - Puzzle of DNA & Rosalind E. Franklin

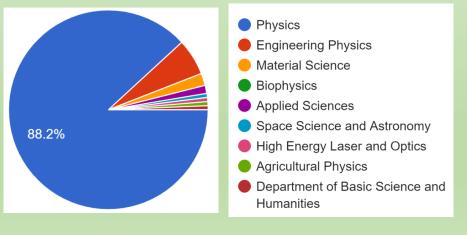
- Shikha Varma, IOP, Bhubaneswar

# Survey Report on Women in Physics, India

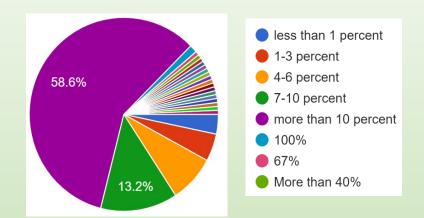
#### 1. Designation



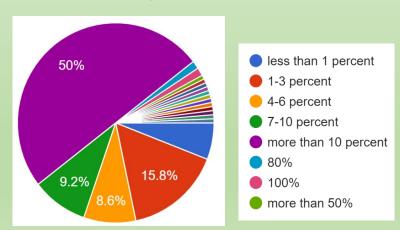
#### 2. Department



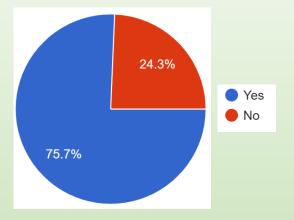
3. Number of women students in a Dept. (in percent of total strength)



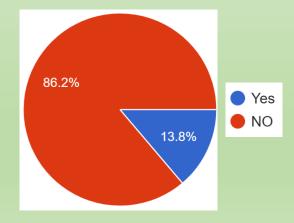
4. Number of women faculty in a Dept. (in percent of total strength)



5. Are you aware of internal complaints committee (ICC) in your Univ./Institute



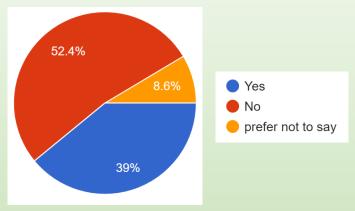
6. Is your Vice Chancellor/Director a female



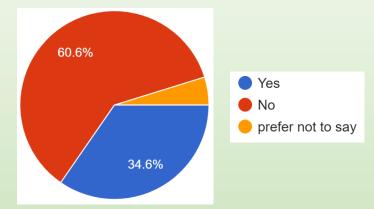
This preliminary report is based on approximately 154 responses

# **Survey Report Continuing...**

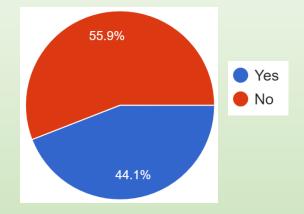
7. Did you receive flexibility in office hours due to family reason



8. Do you have two body problem (i.e. your spouse having permanent position in a different town)



9. Do you have child care facility in your Univ./Institute



#### Take on Message:

- From the survey data, it is clear that women are emerging strongly in Physics in India. Total percentage of women faculty and students in a Department in the report are encouraging.
- Proper child care facility, flexible office hours are must for women to grow professionally and at same time to take care of the family. Much remains to be achieved in this direction.
- > Two body problem is also an important issue. A large percentage of women (> 34%) are facing this problem. This creates an overall instability for women to manage and maintain professional and personal life, especially when they have children.
- > This survey is a preliminary one and more Responses will be collected and analyzed to get a clearer picture.

# Networking-peer interaction

### **SOME IMPEDIMENTS FACED**

Experimental condensed matter requires long working hours

Networking: access to facilities in other labs

Long commute times (Non-residential campus)

Reproductive age coincides with age limits of academic jobs

Spouses in different cities/transferable jobs

Many impediments in the early stages add up: the mole-hills add up to make a mountain

### **WAY FORWARD:**

Need more women in leadership positions

Do women shy away from aspiring for top jobs

Ambition: Career vs job

Consolidate through collaborations

Improve visibility: Invited Speakers in conferences

### **Action Plan:**

- ➤ Group plans to initiate several endeavors, including workshops, panel discussions, etc. for raising awareness about gender-related issues for both women students, post docs, and faculty.
- ➢ By spearheading these initiatives, the group aims to drive positive change and foster a more inclusive and equitable environment in the field of Condensed Matter Physics, where women researchers are able to freely communicate with each other about their problems and challenges.
- Analysis and Evaluation of Survey Results

Acknowledgements to Vandana Nanal and Srubabati Goswami for many useful discussions.

Thank you for your attention!