

Meet Indian Physicists

Bimla Buti: A scientist and a humanist (b – 1933)

Bimla Buti is an Indian physicist who specialised in the field of plasma physics. She is the first Indian Woman Physicist Fellow of the Indian National Science Academy (INSA). Having migrated from Lahore at the time of the partition of India, Buti got admission in a school that did not offer science as an option. But mathematics was what she truly liked. She eventually did her B.Sc. and M.Sc. Physics from Delhi University and received her PhD in plasma physics from the University of Chicago.

After being involved in several postdoctoral studies, she took up a job at the National Academy of Sciences, at Goddard Space Flight Center (NASA). A significant part of her career was spent at the Indian Institute of Technology (IIT), Delhi and Physical Research Laboratory (PRL) Ahmedabad. At PRL, Buti started a new section for the experimental Plasma Physics programme. Between 1985 and 2003, Buti was the Director of Plasma Physics at the International Centre for Theoretical Physics, Trieste, Italy. She initiated and founded the Plasma Science Society of India. Passionate about social causes, she also runs an initiative called Buti Foundation which she founded in 2003.



Image Source: Wikimedia/Sayanadhikari207



Reflections

IPhO 2015 NEWSLETTER



Today's Attraction (Students)

Tour of South Mumbai and TIFR

Most of you might know what to expect during your heritage walk. South Mumbai offers a plethora of multi-cuisine restaurants, street shops and architectural marvels. We gave some glimpses of what South Mumbai is like in the previous issue.

You will also visit TIFR laboratories today. As you are aware, TIFR is a research institution in Mumbai dedicated to basic research in mathematics and the sciences. It is also a Deemed University and works under the umbrella of the Department of Atomic Energy of the Government of India. The campus lies on the sea front (Arabian Sea) and one can spend hours on the campus-lawns in the midst of nature watching the waves, the horizon, sunrises and sunsets, birds, insects and different varieties of trees.

The campus has three main branches, namely, School of Mathematics, School of Natural Sciences and the School of Technology & Computer Science. The School of Natural Sciences has several sub-domains like Biological Sciences, Chemical Sciences, Astronomy & Astrophysics, Condensed Matter Physics & Materials Science, High Energy Physics, Theoretical Physics and Nuclear & Atomic Physics. All of these departments have state of the art laboratories and facilities. You will get to see some of the sophisticated equipment/s that scientists use for their research and learn about their ongoing work.

Hope you enjoy your day after the experimental exams yesterday!

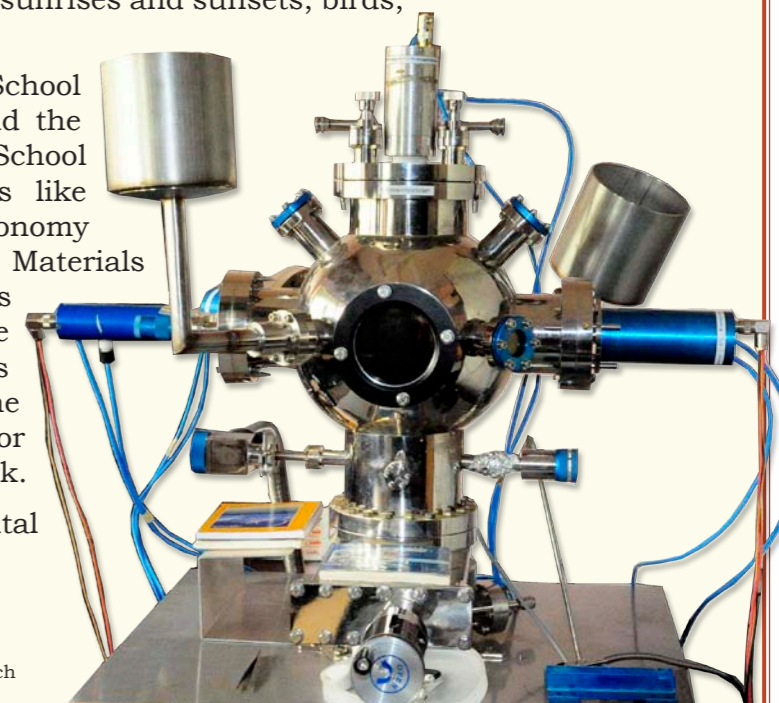


Image Source: TIFR Outreach

* HAPPY *
* BIRTHDAY*



Boyko Vodenicharski
Bulgaria



Sol Kim
Republic of Korea



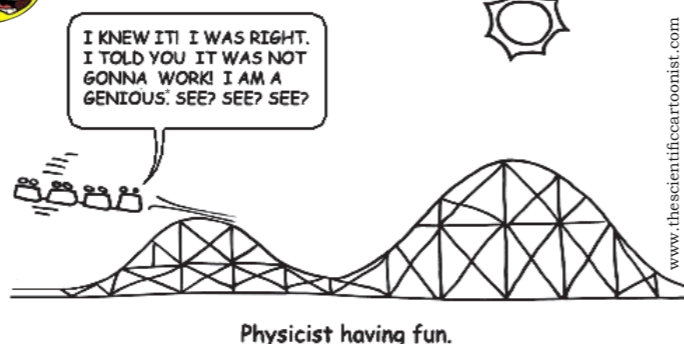
How many different words can you make with the given letters.

RULES: Words have to include the central letter E; have to be 3 letters or more and each letter can be used only as many times as it appears in the wheel.

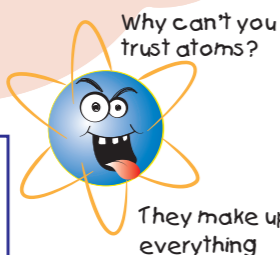
See if you can get a 9-letter word often used in physics.



COMEDY CENTRE



*GENIUS



Why can't you trust atoms?

They make up everything

Answer to yesterday's SU-DO-KU

| | | | | | |
|---|---|---|---|---|---|
| ϕ | Ω | α | β | γ | θ |
| β | γ | θ | Ω | ϕ | α |
| γ | β | Ω | α | θ | ϕ |
| θ | α | ϕ | γ | β | Ω |
| Ω | ϕ | β | θ | α | γ |
| α | θ | γ | ϕ | Ω | β |

BOLLYWOOD

DID YOU KNOW?

Dilwale Dulhania Le Jayenge (DDLJ) a romantic Bollywood movie released in 1995, completed a historic duration of 1009 weeks, at a theater in Mumbai called Maratha Mandir! This film, a classic love story has won the hearts of generations, across the world, over a period of almost 20 years. *DDLJ* was shot in India, Switzerland and England.

"In nature nothing exists alone"
Rachel Carson

Editorial Team: Sugra Chunawala, Manoj Nair, Disha Gupta, Devashree Prabhu, Pooja Sharma and Adithi Muralidhar

Image Source: Wikimedia Commons/ Indianhillbilly



Today@IPhO

Leaders: IB Meeting (Theory discussion), 0900 hrs

Students: Excursion to South Mumbai & TIFR, 0800 to 1700 hrs

Weather Forecast

Temperature
Max: 33°C / 91.4°F
Min: 28°C / 82.4°F

A few spells of rain could occur

Source: Regional Meteorological Centre, Mumbai

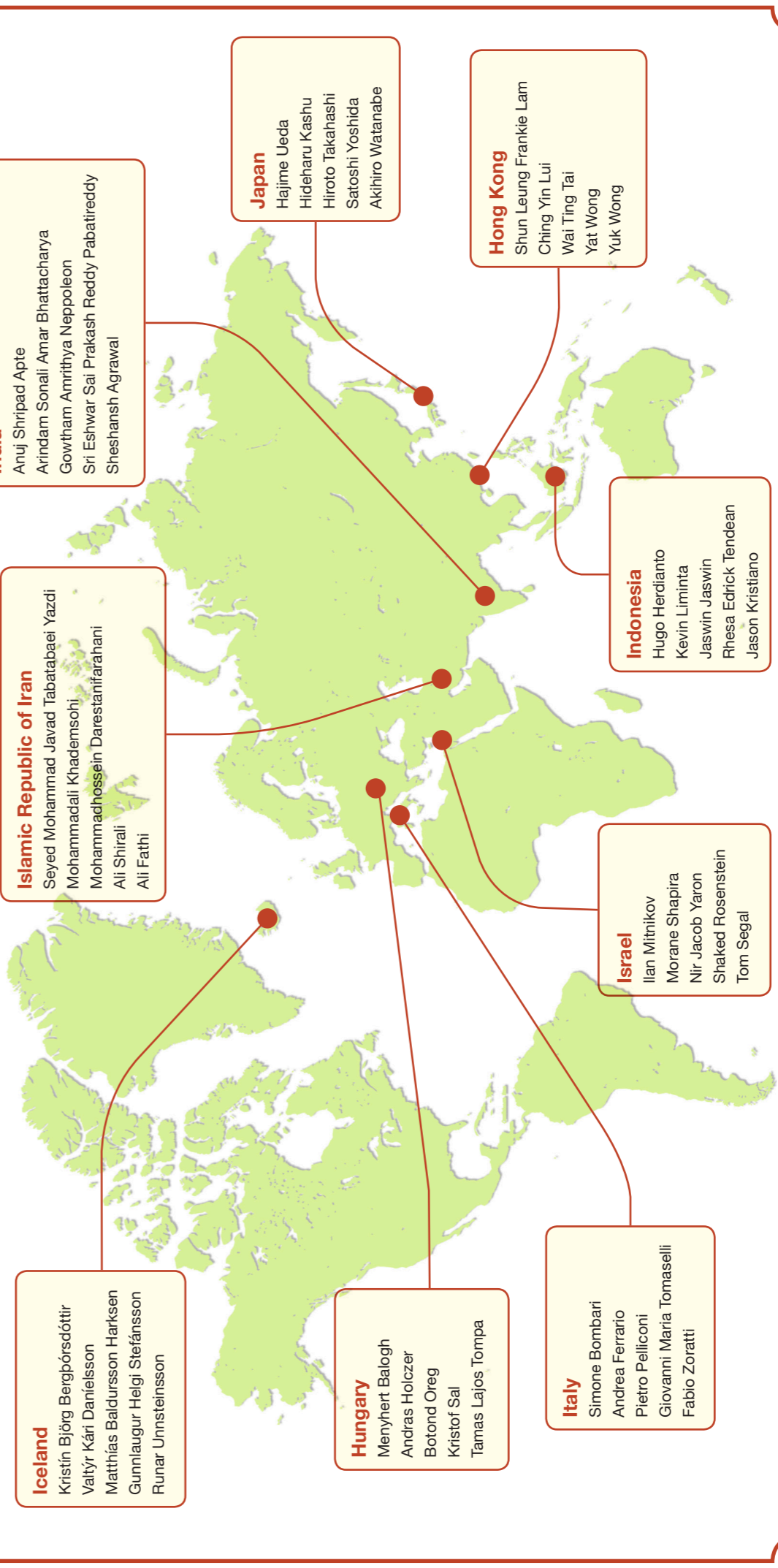


Experimental Examination

Leaders' Day Out!

Students from Russia, Bulgaria, Chinese Taipei, Iceland had a go at Mallakhamba

Rendezvous with IPHO participants



YOU SPEAK!

Maybe the exam would have been better if there were fewer experiments.

Shiye Su
Australia

Needed more time for the exam. But a good thing was that there were not many graphs to draw. There was an Indian touch in the experiments.

Adnan Salman Saood
Syria

The formations they make (*Mallakhamba*) together are pretty but if you look at each part, that's very difficult. I was impressed and scared at the same time..

Ida Kristina Svenningsson
Sweden

I have heard a lot about India and IPHO has given me an opportunity to get to know India better. It is one of the oldest civilizations and it is culturally similar to Armenia. It is a country of contrasts as there are all kinds of people. It is good place to study social science!

Bilor Koryun Kurghinyan
Armenia (Leader)