

# Resonance

February 2026

Volume 31 Number 2

journal of science education



Ramamurti Rajaraman: Cultivator of Many Fields ❖

How Fruit Flies Choose Their Mates ❖

Are Protons Truly Stable? ❖

Variation in Physiology of Thermotolerance in Trees ❖

Revisiting Ramsauer-Townsend Effect ❖

Evolution in Action ❖ De Broglie Waves Centenary – Part 2 ❖

Ranking Events Based on a Random Sample ❖

Surprising Geometric Constructions

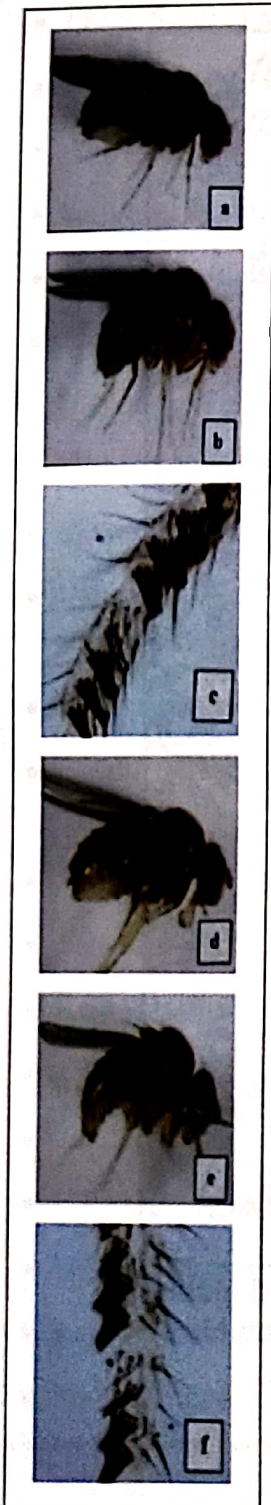
Indian Academy  
of Sciences



Springer



159



**GENERAL ARTICLES**

- 145 Ramamurti Rajaraman**  
*Cultivator of Many Fields*  
Rajaram Nityananda and Ram Ramaswamy
- 159 How Fruit Flies Choose Their Mates**  
*Sexual Isolation in Drosophila*  
B N Singh
- 169 Are Protons Truly Stable?**  
*Proton Stability: A Theoretical and Experimental Overview*  
Ketan M Patel
- 179 Variation in Physiology of Thermotolerance in Trees**  
*Effects of Climate Change*  
Aniruddh Sastry
- 201 Resonant Transmission Through Rectangular Potential Well**  
*Revisiting Ramsauer-Townsend Effect*  
S Bose, J Mitra and P Mandal
- 213 Evolution in Action: Interplay of Environment, Constraint, and Chance**  
Sudipta Tung

**SERIES ARTICLE**

- 233 De Broglie Waves Centenary: Revisiting Its Various Aspects**  
*Part 2*  
Vishwamittar



## CLASSROOM

**Ranking Events Based on a Random Sample** 255

Quyên Tran and Jyotirmoy Sarkar

**Eco-friendly Approach to Synthesize and** 271

**Characterize  $Al_2O_3$  Nanoparticles for Food**

**Packaging Materials**

Debanjali Barman Roy, Susanta Das and

Sachin Singh Selal

**Surprising Geometric Constructions : Ancient** 287

**Tools and Modern Technology**

Segal Ruti, Stupel Moshe and Sigler Avi



## CLASSICS

**Role of Symmetries in the Sciences** 303

**Versus the Arts – A Contrast**

R Rajaraman

## Front Cover



Surface and cave forms of the Mexican tetra (*Astyanax mexicanus*). Photograph by Richard Borowsky, Wikimedia Commons (CC BY-SA 3.0). For more details see article on page 213.

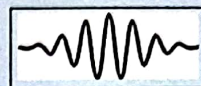
## Back Cover



Ramamurti Rajaraman (1939–2025)

Illustrator: Subhankar Biswas

## DEPARTMENTS



**Editorial** 135

B Sury



**Science Smiles** 141

Ayan Guha

**Crossword** 310

**Birds in the Backyard**

Follow us

Facebook:

@Resonance.IASc.Bng

Twitter: @IAScResonance