



# *Srinivasa Ramanujan Library*

## *ORIENTATION*





- Responsible for acquisition, processing, organizing, and providing access to high quality information resources both in print and digital form.
- Partner in teaching, learning, and research activities



Seating capacity - 80



***Library Annexe***

Seating capacity - 40

# Service Hours

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- Library Opening Hours
  - 8:00 am - 11:00pm on all days.
- Issue and Return Hours
  - 8:00 am – 11:00 pm on all days with self check-out kiosk
- Library Annexe
  - 24x7

# Membership

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- Students, faculty and staff of the institute.
- Requirements: Registration number - Institute email ID - Fingerprint
- Visitor Membership
  - Research Scholars
  - Academic Institutional
  - Corporate and Industry

## Current statistics of resources

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- |  |          |   |
|--|----------|---|
| ▪ Print Books                                | - 30000+ | • Rich collection of reference books, textbooks and research journals |
| ▪ e-Books                                    | - 6000+  |   |
| ▪ Print Journals / Magazines                 | - 50     |   |
| ▪ e-Journals                                 | - 13000+ | • Full-text & bibliographic databases and multimedia contents.        |
| ▪ Full-Text Database                         | - 10     |   |
| ▪ Bibliographic Database                     | - 4      |   |
| ▪ Digital Repository (Theses + Publications) | - 6000+  |   |
| ▪ Digital Resources                          | - 500+   |   |
| ▪ CD-ROM, DVD, VCD etc.                      |          |   |

# Print Collection



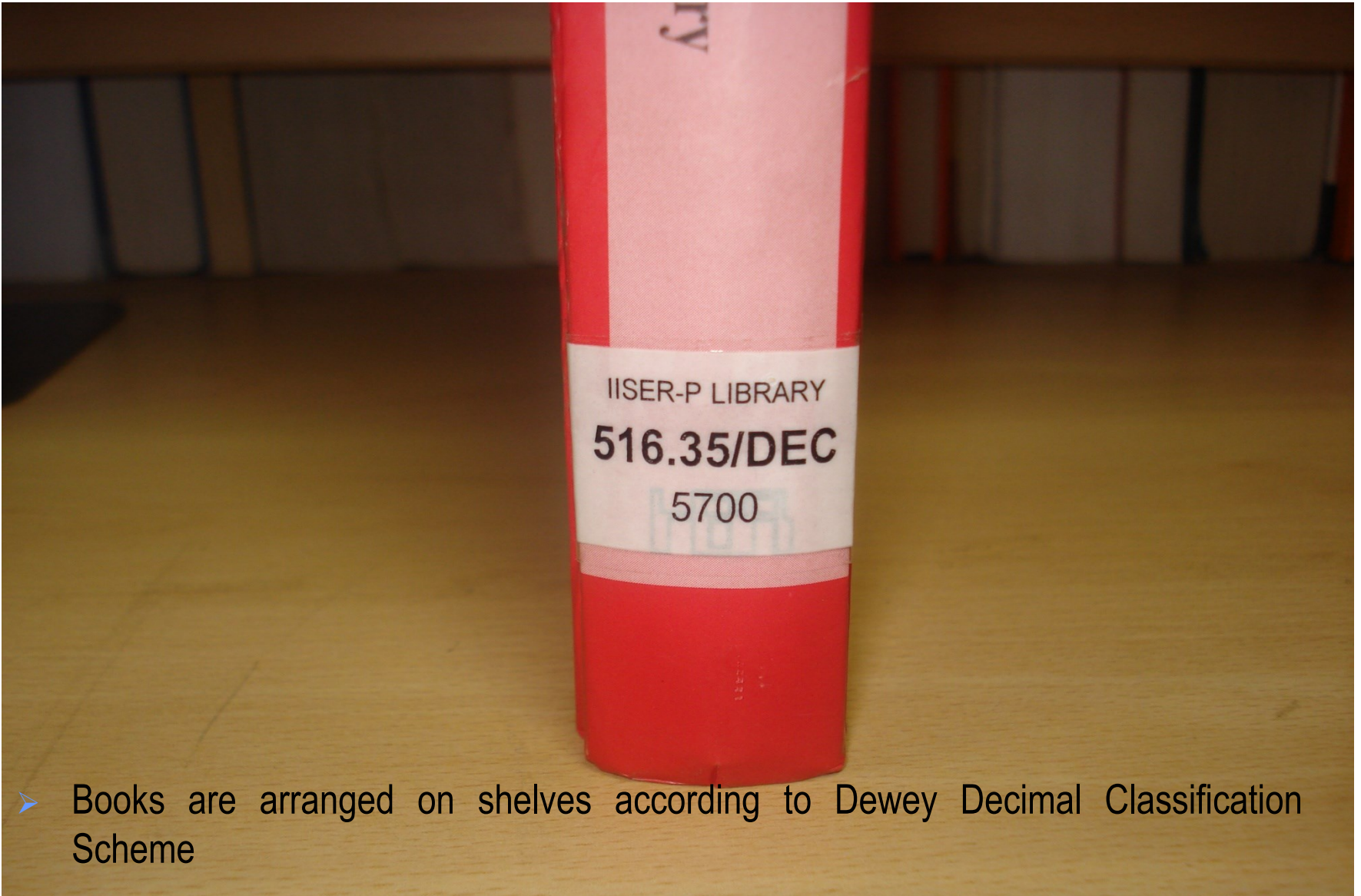
Touch screens for catalogue browsing

- Reference Sources and Reference Books
- Textbooks and other collection

# New Additions of Books



# Classification



- Books are arranged on shelves according to Dewey Decimal Classification Scheme

# OPAC – Online Public Access Catalogue

LIBSYS7

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OPAC

Srinivasa Ramanujan Library, IISER Pune.

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Subject

Publisher

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in

Books

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Mathematics, 2004  
Watkins, J.J.  
793.74/WAT  
1346

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Anglin, W.S.\_Ed  
510.9/ANG  
12324

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Vol. 01, 2006  
Wallace, D.  
544.18:51/WAL  
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EB568

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Vol.543, 2002  
Edmunds, D.E.\_Ed  
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11469

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Mathematics and its applications, 2003  
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515/CAR  
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Soare, M.V.  
515.352/SOA  
1689+

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Mathematics and its applications, 1991

Mathematics and its applications, 1987

Mathematics and Its Applications Soviet Series Vol. 36, 1989

Mathematics and its applications, Vol. 578, 2005

IISER, Pune

# Search print books through OPAC

- Search OPAC to know
  - bibliographic details of books
  - number of copies
  - status of book
  - issued to whom
  - due date
  - reserve book
  - new additions of books to the library

# OPAC – Online Public Access Catalogue

LIBSYS7



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Invitation to astrophysics / PADMANABHAN, T.  
523.01/PAD  
Accn : 5303  
Due Date : 04/02/2020  
Reserves:

[Add to cart](#)

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Galaxies in the universe: an introduction / Sparke, Linda S.  
523.112/SPA  
Accn : 17951  
Due Date : 19/07/2019  
**Delayed By: 3**  
Reserves:

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Physics of stars / PHILLIPS, A. C.  
523.8/PHI  
Accn : 12725  
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Physics of the solar corona: An introduction with problems a / ASCHWANDEN, M.J.  
523.75/ASC  
Accn : 5167  
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Marketing your library's electronic resources: a how-to-do-i / Kennedy, Marie R.  
025.284/KEN  
Accn : 20567  
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Sexual harassment of women at workplace prevention, prohibi / KAMAL PUBLISHERS  
361/KAM  
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Science as a way of knowing :The foundations of modern biolo / Moore,J.A.  
574.09/MOO  
Accn : 8821  
Due Date : 30/12/2019

# Circulation Kiosk



- Totally Automated Circulation System
- RFID Based Technology
- System generated alerts and reminders
- Biometric User Authentication
- Registration with fingerprint is mandatory to borrow books from the library.

# Security System



- Library employs **RFID Security System** with alert siren for safeguarding the learning resources
- Library is also being monitored by **Closed Circuit Cameras**

# Circulation Policy

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## ▪ Borrowing Privileges

- |                                     |                         |
|-------------------------------------|-------------------------|
| ▪ <b>BS-MS Students</b>             | - 4 books for 30 days   |
| ▪ <b>MSc</b>                        | - 4 books for 30 days   |
| ▪ <b>Int. Ph.D Students</b>         | - 5 books for 30 days   |
| ▪ <b>Junior Research Fellow</b>     | - 5 books for 60 days   |
| ▪ <b>Senior Research Fellow</b>     | - 7 books for 180 days  |
| ▪ <b>Post Doctoral Fellow</b>       | - 7 books for 180 days  |
| ▪ <b>Project Assistant</b>          | - 3 books for 30 days   |
| ▪ <b>Project Fellow</b>             | - 3 books for 30 days   |
| ▪ <b>Research Associate</b>         | - 7 books for 180 days  |
| ▪ <b>Teaching Assistant</b>         | - 2 books for 30 days   |
| ▪ <b>Faculty</b>                    | - 50 books for 365 days |
| ▪ <b>Visiting faculty</b>           | - 5 books for 90 days   |
| ▪ <b>Adjunct faculty</b>            | - 5 books for 90 days   |
| ▪ <b>Regular non-teaching staff</b> | - 5 books for 30 days   |
| ▪ <b>Temporary Staff</b>            | - 1 book for 15 days    |

# Circulation Policy

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- **Overdue Charges for all category of users**
  - Rs.1/- per day per book for 3 days after due date.
  - Rs.5/- per day per book from 4th day and onwards after due date.
  
- **Ceiling Amount**
  - *Students and other Members:* Ceiling of Rs.100 for preventing from further issuing of books and ceiling of Rs.1000/- for accumulation of total overdue charges per user at a time.
  
  - *Faculty, Visiting and Adjunct faculty Members:* Ceiling of Rs.500/- for preventing from further issuing of books and ceiling of Rs.1000/- for accumulation of total overdue charges per user at a time.

# CD / DVD



3.6.2019

## Print Journals



# Online Services

---

## Library Portal

Gateway for Library  
Resources

## Remote Login

Anywhere, anytime access to  
library online resources

## e-Journals

Discovery Tool, A-Z List,  
Publisher-wise List

## e-Books

OPAC, Publisher-wise List

## Research Platforms

Web of Science, Scopus,  
Scifinder Scholar, MathSciNet,  
JGate

## Digital Repository

Ph.D Theses, MS Theses,  
Publications by IISER Pune  
Community, Annual Reports and  
Magazines by IISER Pune.

## Catalogues (OPAC)

Print Books and eBooks

## Similarity Reports

Plagiarism Detection and Avoidance

## Grammarly

Writing Support Tool

# Access to e-Resources

---

- Types of e-resources
  - e-Journals
  - e-Books
  - Electronic Theses and Dissertations
  - e-Databases
    - Full-Text Databases
    - Indexing and Abstracting Databases
  - Multimedia Resources
- IP based access to online resources
- Systematic Downloading is strictly prohibited

# Remote Access Service

- SRL provides secured off-campus access to all the subscribed e-resources.
- This facility is being provided to faculty and research scholars of IISER Pune to facilitate and promote the use of e-resources at the point of need and use.

The screenshot displays the 'e-Resources Remote Access Portal' for the 'SRINIVASA RAMANUJAN LIBRARY' at 'Indian Institute of Science Education and Research Pune'. The page features a dark blue header with the library's logo and name. Below the header is a navigation bar with links to 'E-Resources', 'A-Z Journals', 'A-Z E-Books', 'Tutorials', and 'User Profile'. A search bar is located below the navigation bar, with a dropdown menu set to 'Search All' and a 'Go' button. To the right of the search bar is a 'Google Scholar' link. The main content area is divided into two columns. The left column is titled 'E-Databases' and contains a 'Filter E-Databases' search bar. Below this is a list of 15 databases, each with a star icon, the database name, and a 'Details' link. The right column contains three sections: 'Access via RemoteXs' with a button and a note to drag the button to the bookmarks bar; 'Announcements' with two entries dated 'Mar 25 2020' (RemoteXs Launch and Similarity Reports); and 'My Favorites' with two sections: 'Databases' (Astrobiology (2001-present) [E-Journals]) and 'Journals' (Human Nature (1997- present)). A 'Help' button is located in the bottom right corner.

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SRINIVASA RAMANUJAN LIBRARY  
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**E-Resources** **A-Z Journals** **A-Z E-Books** **Tutorials** **User Profile**

Search All Available Content (E-Databases, E-Journals, E-Books, Tutorials) Go Google Scholar

**E-Databases**

Filter E-Databases

☆	American Association for Cancer Research (AACR)	Details
☆	American Association for the Advancement of Science (AAAS)	Details
☆	American Association of Immunologists (AAI)	Details
☆	American Chemical Society (ACS)	Details
☆	American Institute of Physics (AIP)	Details
☆	American Mathematical Society (AMS)	Details
☆	American Physical Society (APS)	Details
☆	Annual Reviews	Details
☆	Cambridge University Press (CUP)	Details
☆	Cell Press	Details
☆	Cold Spring Harbor Laboratory Press (CSHL)	Details
☆	EDP Sciences	Details
☆	Elsevier's Science Direct	Details
☆	European Mathematical Society	Details

**Access via RemoteXs**  
Drag this button to your bookmarks bar! ?

**Announcements**

**Mar 25 2020**  
**RemoteXs Launch**  
Our online resources are available 24 hours a day from wherever you are via Remote Access service.

**Mar 25 2020**  
**Similarity Reports**  
Plagiarism Checking Report

**My Favorites**

**Databases**  
Astrobiology (2001-present) [E-Journals] ★

**Journals**  
Human Nature (1997- present) ★

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Author Title Classified Subject Publisher Place

Starting With

Albert W. Grootendorst, Jan Aarts, Miente Bakker, Reinie Erni

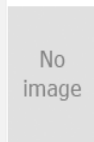
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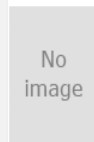
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Miente Bakker, Reinie Erni  
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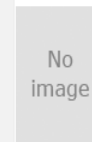
Albert W. Marshall, Ingram Olkin,  
Barry C. Arnold  
Inequalities: Theory of Majorization  
and Its Applications

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Flavio Ferreira  
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Diffeomorphisms

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Measurements in Continuous Time

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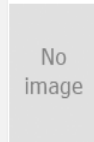
Alberto Bressan, Gui-Qiang G. Chen,  
Marta Lewicka, Dehua Wang  
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Applications

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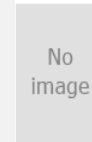
Alberto Cambini, Laura Martein  
Generalized Convexity and  
Optimization

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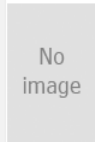
Alberto Cialdea, Paolo Emilio Ricci,  
Flavia Lanzara  
Analysis, Partial Differential Equations  
and Applications

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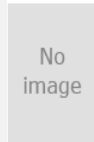
Alberto Parmeggiani  
Spectral Theory of Non-Commutative  
Harmonic Oscillators: An Introduction

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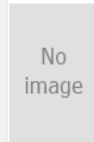
Alberto S. Cattaneo, Anthony  
Giaquinto, Ping Xu  
Higher Structures in Geometry and  
Physics

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Albeverio, S.; Jentsch, V.; Kantz, H.  
Extreme Events in Nature and Society

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Albiac, Fernando; Kalton, Nigel J.  
Topics in Banach Space Theory

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Aldashev, Almaz; Naeije, Robert  
Problems of High Altitude Medicine and  
Biology

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Aldo Ghizzetti  
Alcune questioni di analisi numerica



Aldo Solari, Luigi Salmasso,  
Fortunato Pasarin, Dario Basso



Alekseev, Victor R.; De Stasio, Bart;  
Gilbert, John J.



Alessandra Giovagnoli, Anthony C.  
Atkinson, Bernard Torsney, Cal

OPAC Books (Intranet)	J-GATE	Databases	Digital Repository (DR)
Search Query (Intranet) <input type="text"/>			
<input type="button" value="SEARCH"/>			

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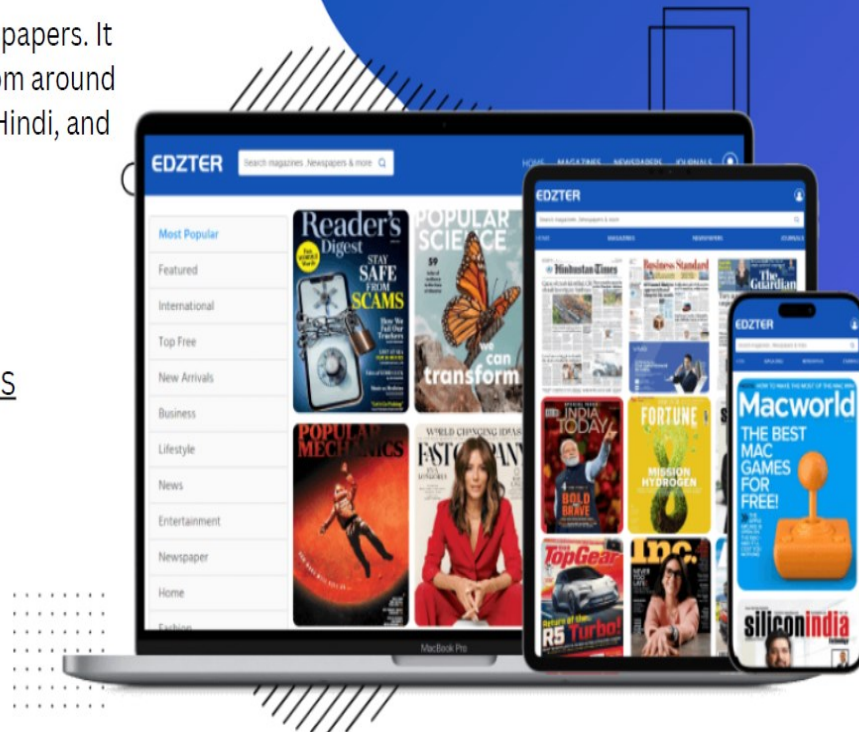
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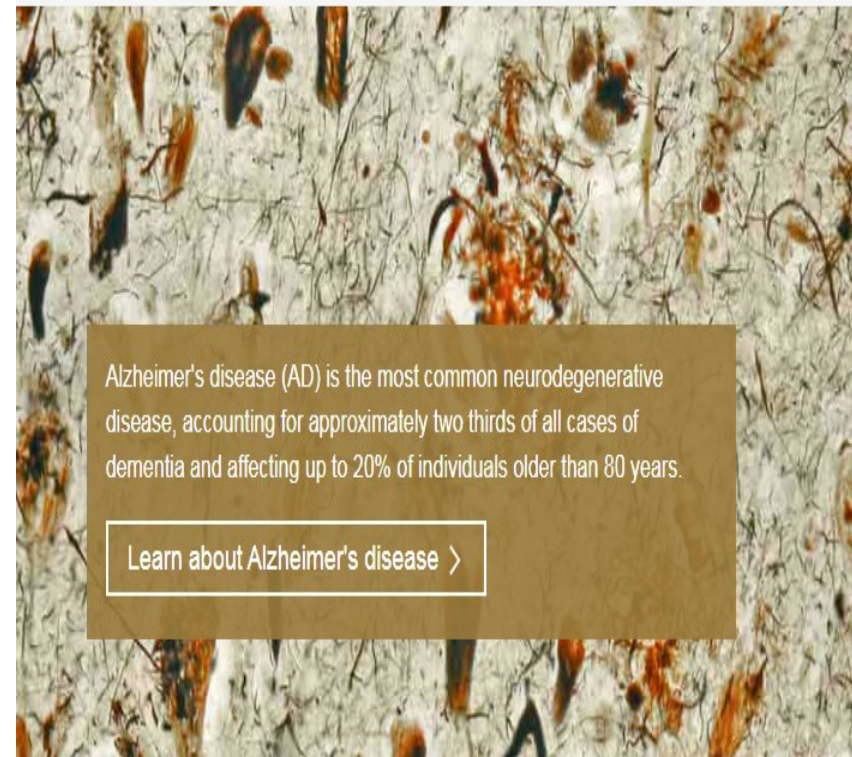
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The journals are grouped into four main sections:



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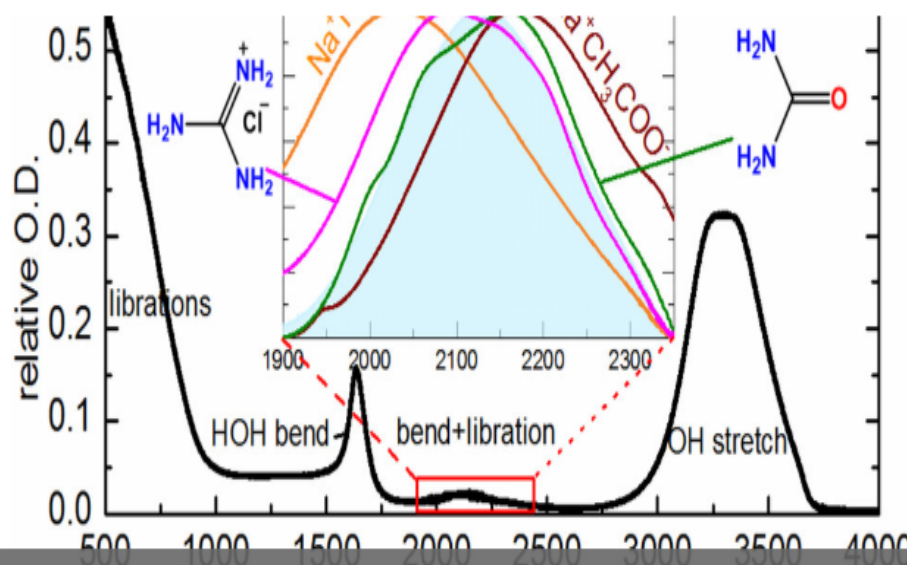
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The Astrophysical Journal Letters

The Astrophysical Journal Supplement Series

### B

Biofabrication

Bioinspiration & Biomimetics

Biomedical Materials

### L

Laser Physics

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A global initiative for the appreciation of light and the role it plays in science



### Meggers Project Award Recipient

<https://www.aip.org/news/2018/aip-celebrates-inaugural-international-day-light>



### Dannie Heineman Prize for Mathematical Physics

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Tuesday, 15 May, 15:30 - 17:00  
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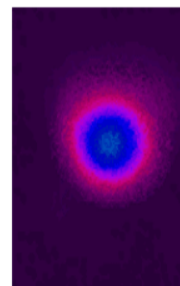


Investigation of index change in compression molding of  $\text{As}_{40}\text{Se}_{50}\text{S}_{10}$   
chalcogenide glass

Lin Zhang, Wenchen Zhou, Neil J. Naples, and Allen Y. Yi

Appl. Opt. 57(15) 4245-4252 (2018)

On the study of the relation between linear/nonlinear RABP reduction



## Image of the Week - 14 May 2018

Intracavity deformable mirror for beam quality  
improvement and power enhancement of a  
passively Q-switched laser

See Figure 13 in Opt. Express 26(7), 8594-8608 (2018).

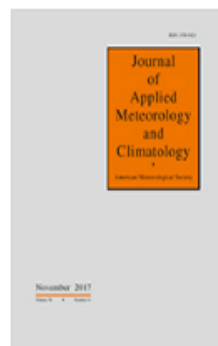
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Leo Breiman

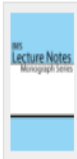
Statistical Science, Volume 16, Issue 3 (2001)

[Article](#)

### A simple proof that $\pi$ is irrational

Ivan Niven

Bulletin of the American Mathematical Society, Volume 53, Number 6 (1947)

[Article](#)

### Duality for a non-topological version of the mass transportation problem

Vladimir L. Levin

Institute of Mathematical Statistics Lecture Notes - Monograph Series (1996)



### Bootstrap Methods: Another Look at the Jackknife

B. Efron

The Annals of Statistics, Volume 7, Number 1 (1979)

[Article](#)

### Greedy function approximation: A gradient boosting machine.

Jerome H. Friedman

The Annals of Statistics, Volume 29, Number 5 (2001)

## News and events

Project Euclid to attend ICM 2018

MSP journals in Project Euclid

*Acta Mathematica* and *Arkiv för Matematik*: open access in 2017

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### The Moving Image

from The University of Minnesota Press

*The Moving Image* explores topics relevant to both the media archivist and the media scholar. *The Moving Image* deals with crucial issues surrounding the preservation, archiving, and restoration of film, video, and digital moving images.



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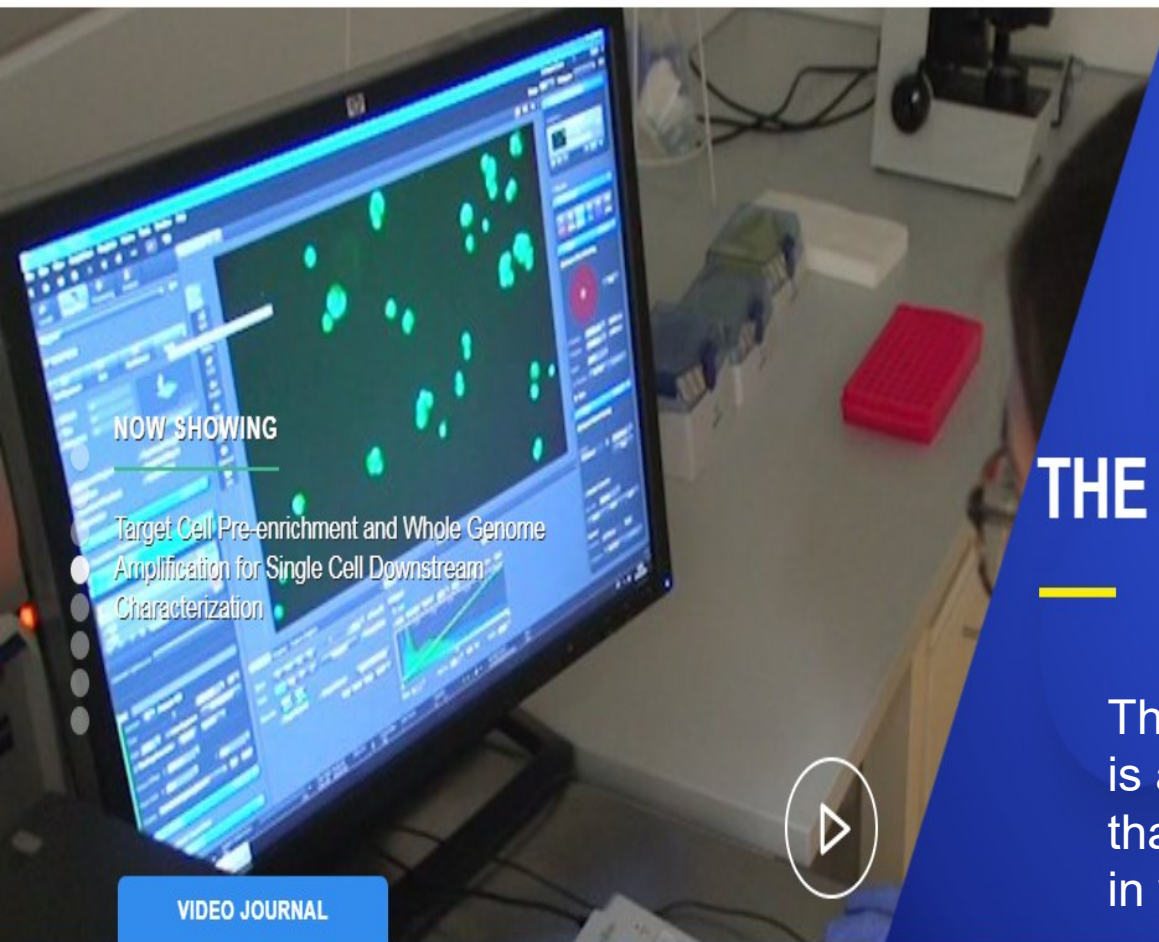
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Derwent Innovation

# Web of Science

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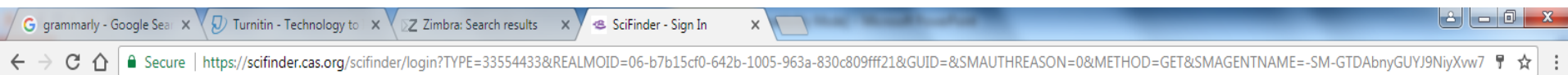


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Seismic imaging of crust beneath the western Tibet-Pamir and western Himalaya using ambient noise and earthquake waveform data

KUMAR, VIVEK (2021-10)

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## A five-residue motif for the design of domain swapping in proteins

Nandwani, Neha; Surana, Parag; Negi, Hitendra; Mascarenhas, Nahren M.; UDGAONKAR, JAYANT B.; Das, Ranabir; Gosavi, Shachi

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Domain swapping is the process by which identical monomeric proteins exchange structural elements to generate dimers/oligomers. Although engineered domain swapping is a compelling strategy for protein assembly, its application has been limited due to the lack of simple and reliable design approaches. Here, we demonstrate that the hydrophobic five-residue 'cystatin motif' (QVVAG) from the domain-swapping protein Stefin B, when engineered into a solvent-exposed, tight surface loop between two  $\beta$ -strands prevents the loop from folding back upon itself, and drives domain swapping in non-domain-swapping proteins. High-resolution structural studies demonstrate that engineering the QVVAG stretch independently into various surface loops of four structurally distinct non-domain-swapping proteins enabled the design of different modes of domain swapping in these proteins, including single, double and open-ended domain swapping. These results suggest that the introduction of the QVVAG motif can be used as a mutational approach for engineering domain swapping in diverse  $\beta$ -hairpin proteins.

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**Pubmed ID** 30692525 [↗](#)

**Authors** Neha Nandwani, Parag Surana, Hitendra Negi, Nahren M. Mascarenhas, Jayant B. Udgaonkar, Ranabir Das... [\[show\]](#)

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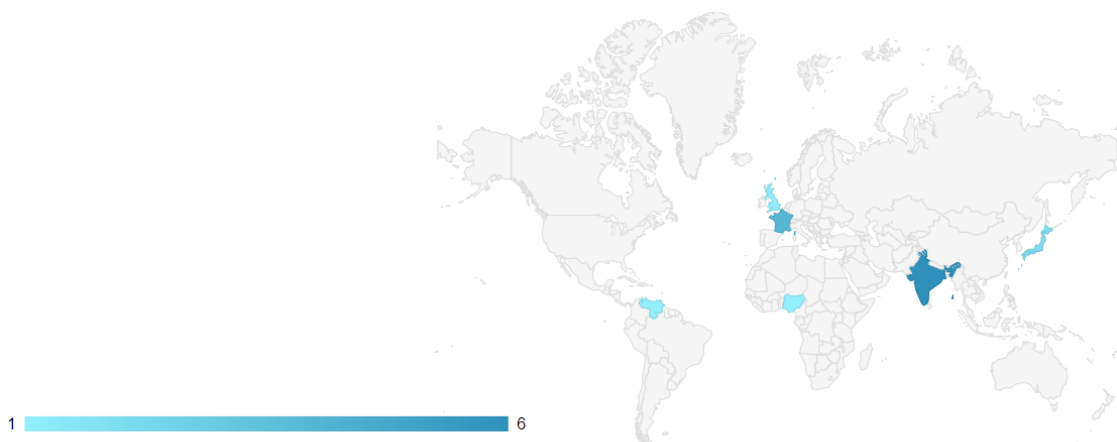
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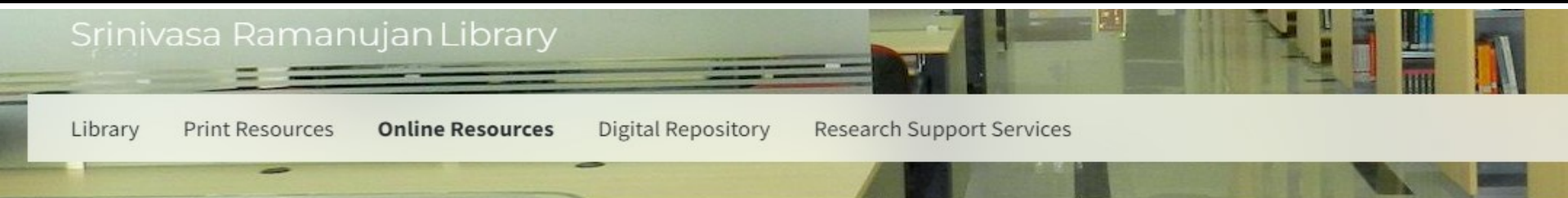
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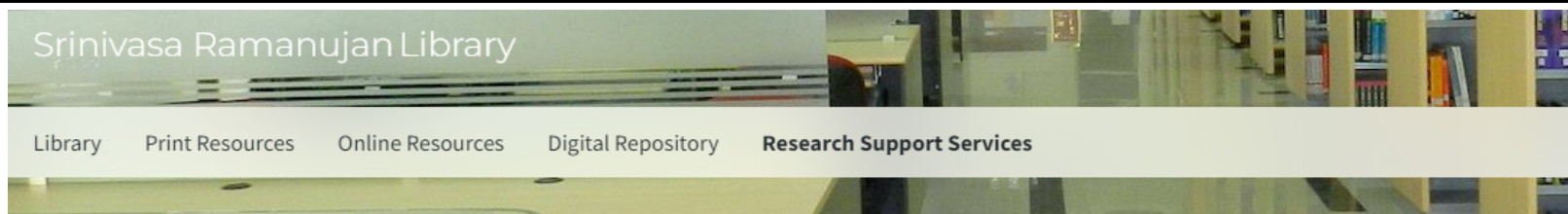
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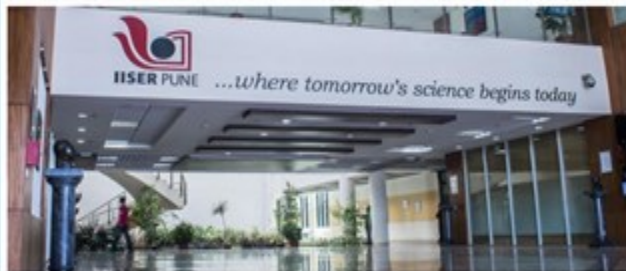
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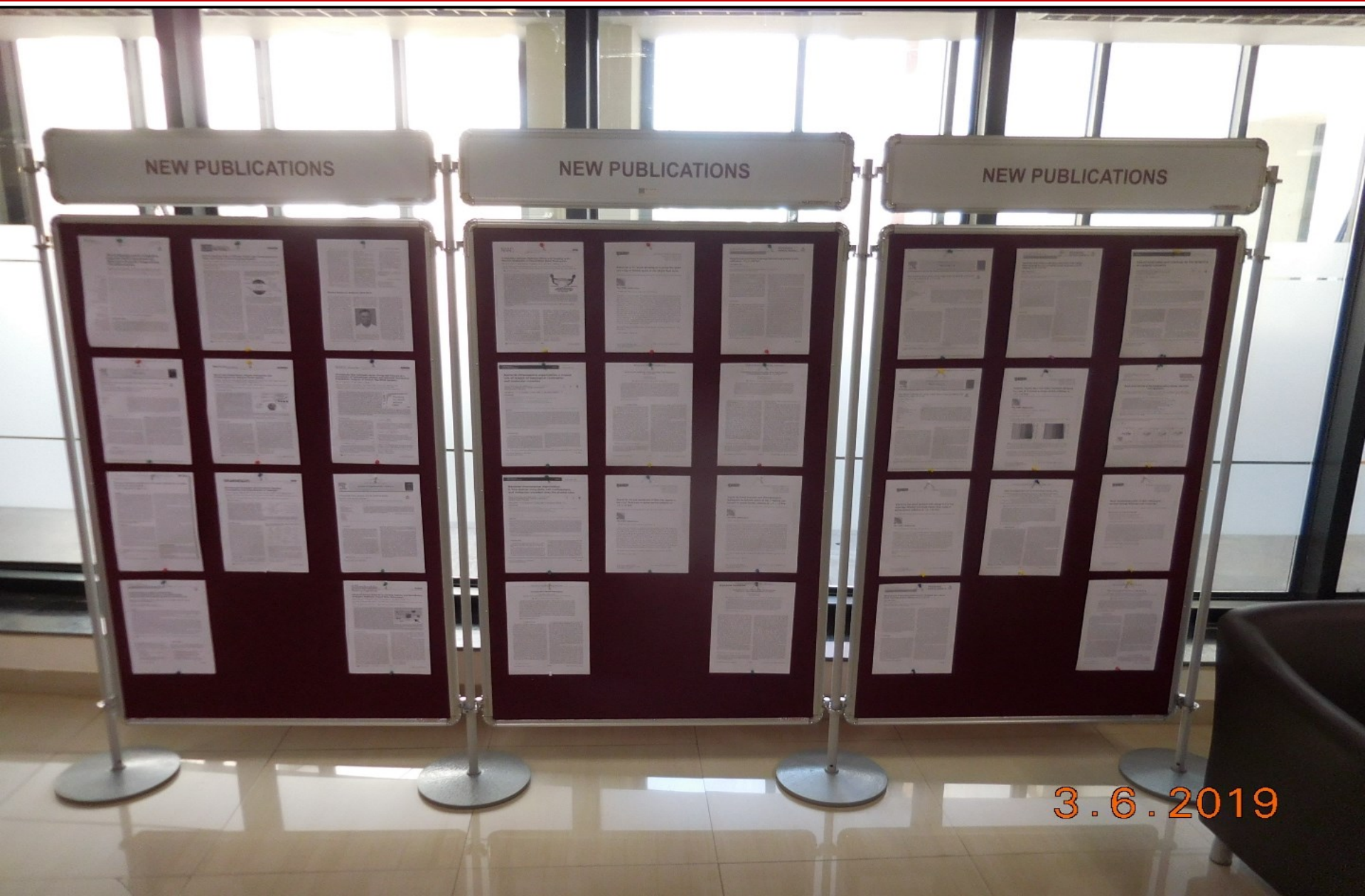
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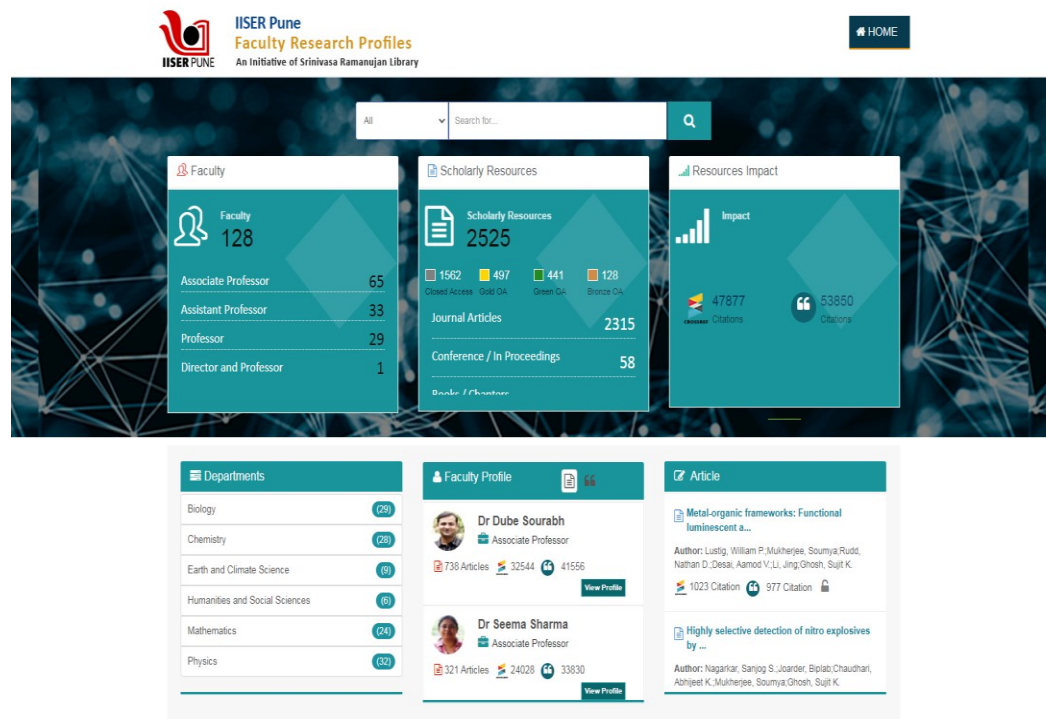
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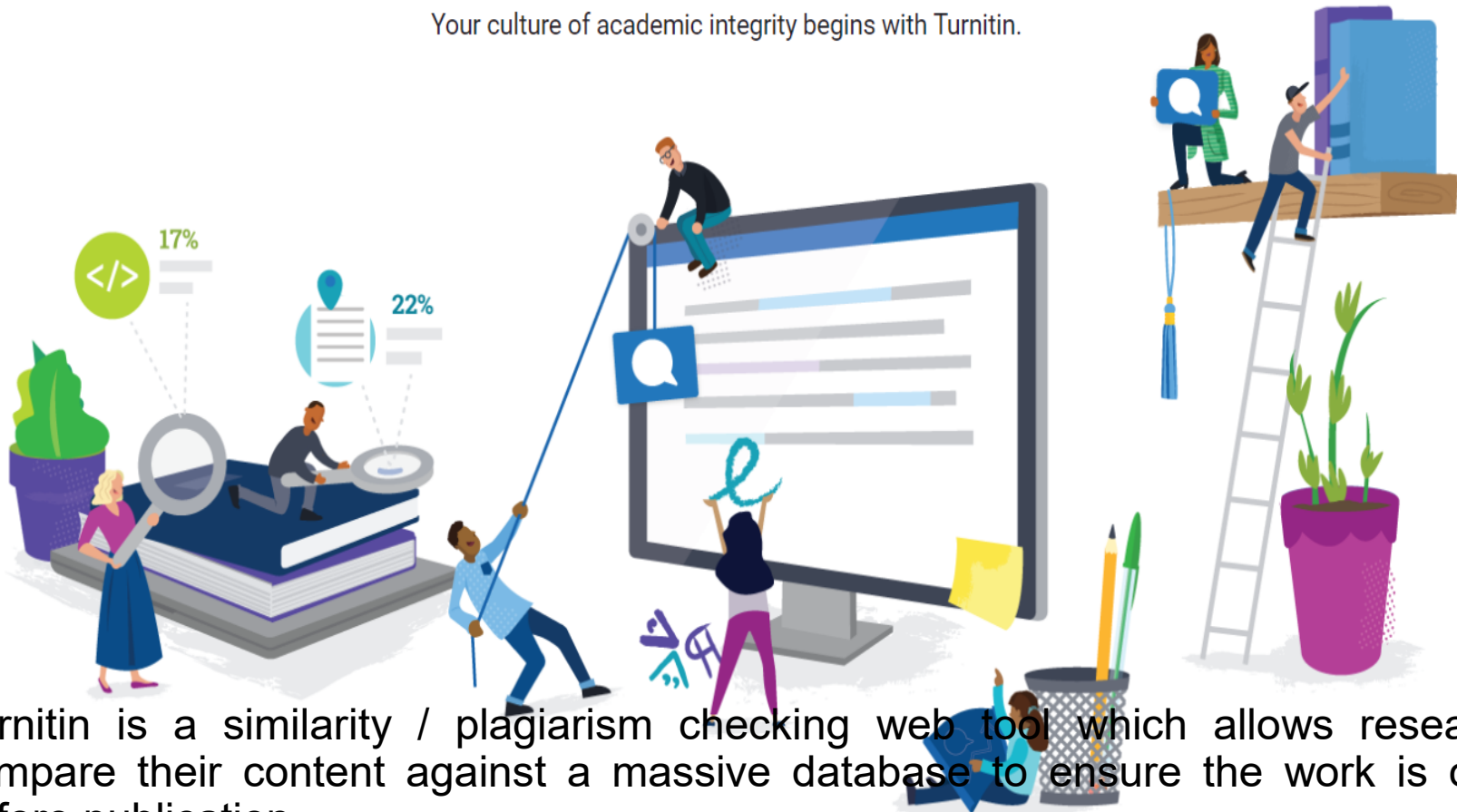
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### Theory

In tokamak ionised gas particles known as plasma(vaguely) collide with each other and fuses whose kinetic energy get increased by induced electric field through central solenoid situated at the axis of tokamak and guided by toroidal and poloidal field coils.Before the tokamak there was magnetic mirror where particle used to get confine in the container.The achievement of MHD equilibrium was possible because of in ideal MHD the fluid can not flow freely across the magnetic field. However, the fluid (or plasma), can flow freely along the field and this allows the fluid to exit the apparatus through the ends of the cylinder. These inherent end losses have proven to be detrimental to achieving fluid confinement in finite cylindrical geometry.

An ingenious solution to the end loss problem is to connect the ends of the cylinder to each other, thus transforming the cylinder into a torus (that is tokamak) thus The end losses are completely eliminated moreover all the magnetic field lines remain within the boundaries of the system.

We are thus motivated to study equilibrium in a toroidal configuration. With a torus, it is usual to work in a cylindrical coordinate system  $(R, \phi, Z)$  in which the cross-sectional area of the fluid lies in the  $(R, Z)$  plane (the poloidal plane) and  $\phi$  is the angle of rotation about Z-axis. The important in which all quantities independent of  $\phi$  is called axisymmetric. This is equivalent of Z-independence(or translational symmetry) in the straight cylinder. The radius of the center of poloidal cross-section is called the major radius. The radius of the outer boundary with respect to the major radius is called the minor radius which is shown in figure ?? Unfortunately when a cylindrical MHD equilibrium is bent into a torus it is no longer an equilibrium. Instead it tends to expand outward in the major radial direction. There are two reasons for this. First, a straight cylinder is symmetric about its central

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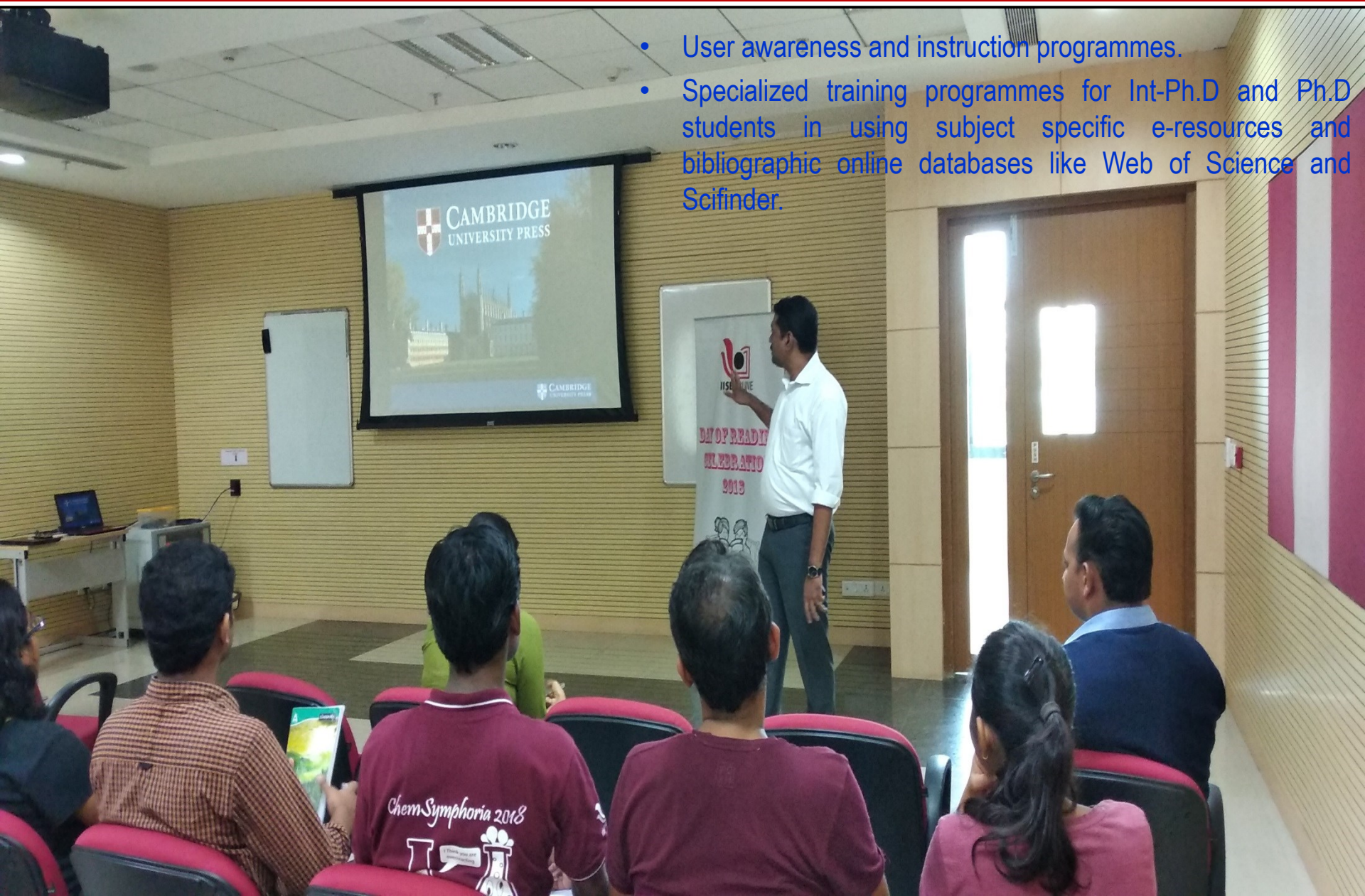
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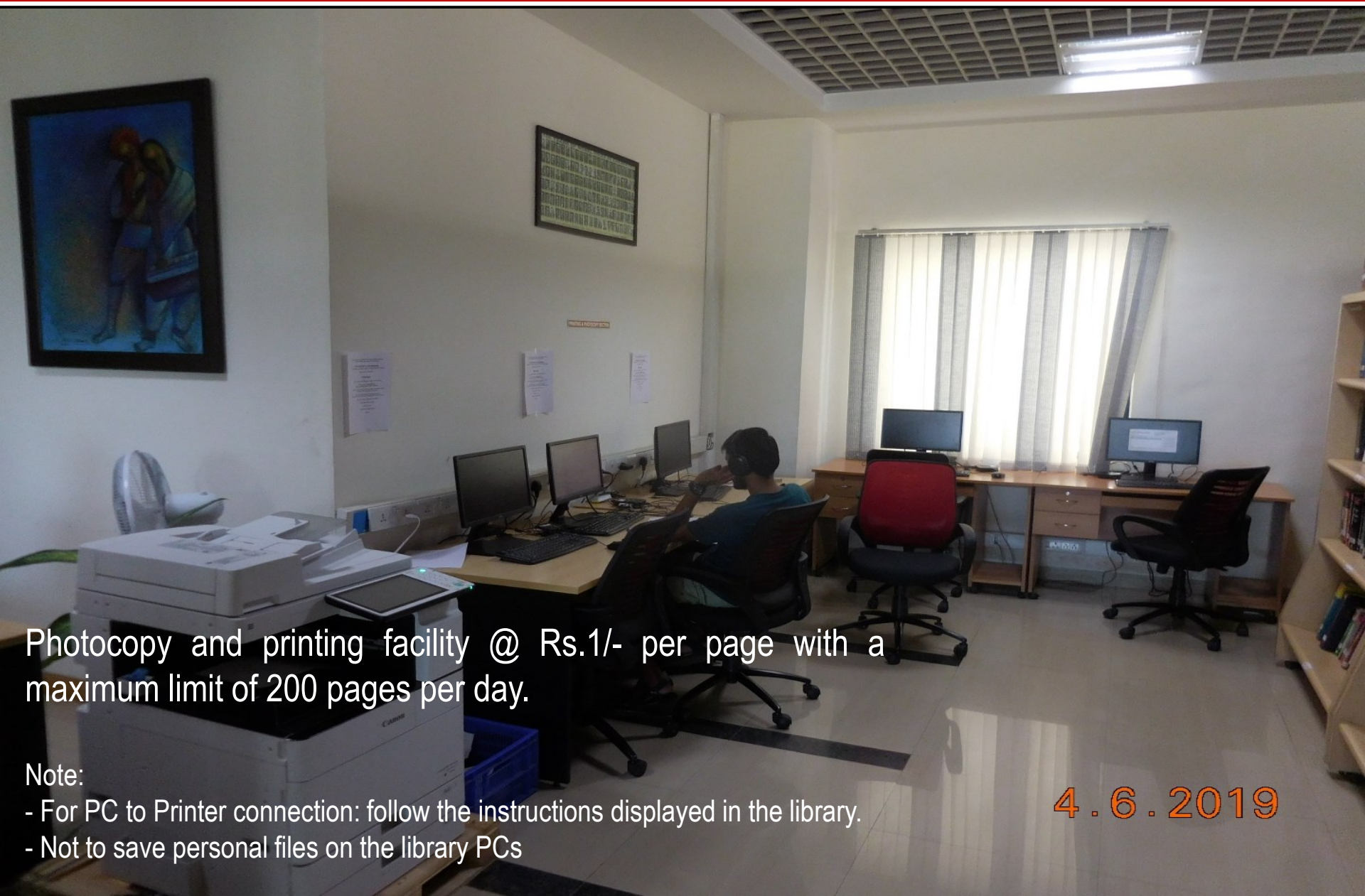


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