

Five years of the RRI Digital Repository:

Some lessons and reflections

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Birth of the RRI Digital Repository

- We have a large collection of scanned newspaper clippings about Raman dating back to the 1930s.
- We have a complete set of all the research papers in the pdf format from 1948.
- We were keen to make all these documents accessible not only on our Intranet but also on the Internet. This way we could also support the Open-Access movement

Birth of the RRI Digital Repository (contd.)

- Selection of software: We considered both Eprints & Dspace.
- Dspace was installed on a test server and tried out extensively for a few months.
- The test installation was satisfactory and so Dspace was selected for our repository.

RRI Digital Repository – some milestones

April 2005 – Test installation

July 2005 – Dedicated server

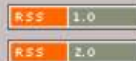
March 2006 – The repository became available on the internet

Registered with OAISTER and ROAR soon after.

February 8, 2010

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RRI Digital Repository >

Welcome to the Digital Repository of the Raman Research Institute

This contains the research publications of the faculty and students of the Raman Research Institute. The collected papers of C.V. Raman and the historical records of the institute (Annual Reports and Newspaper Clippings) are also housed here.

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Enter some text in the box below to search DSpace.

 Communities in DSpace

Choose a community to browse its collections.

01. Archives [752]
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03. Science at the Raman Institute: 1948-1970 [61]
04. Astronomy and Astrophysics [790]
05. Light and Matter Physics [144]
06. Soft Condensed Matter [976]
07. Theoretical Physics [434]
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10. Miscellaneous [112]

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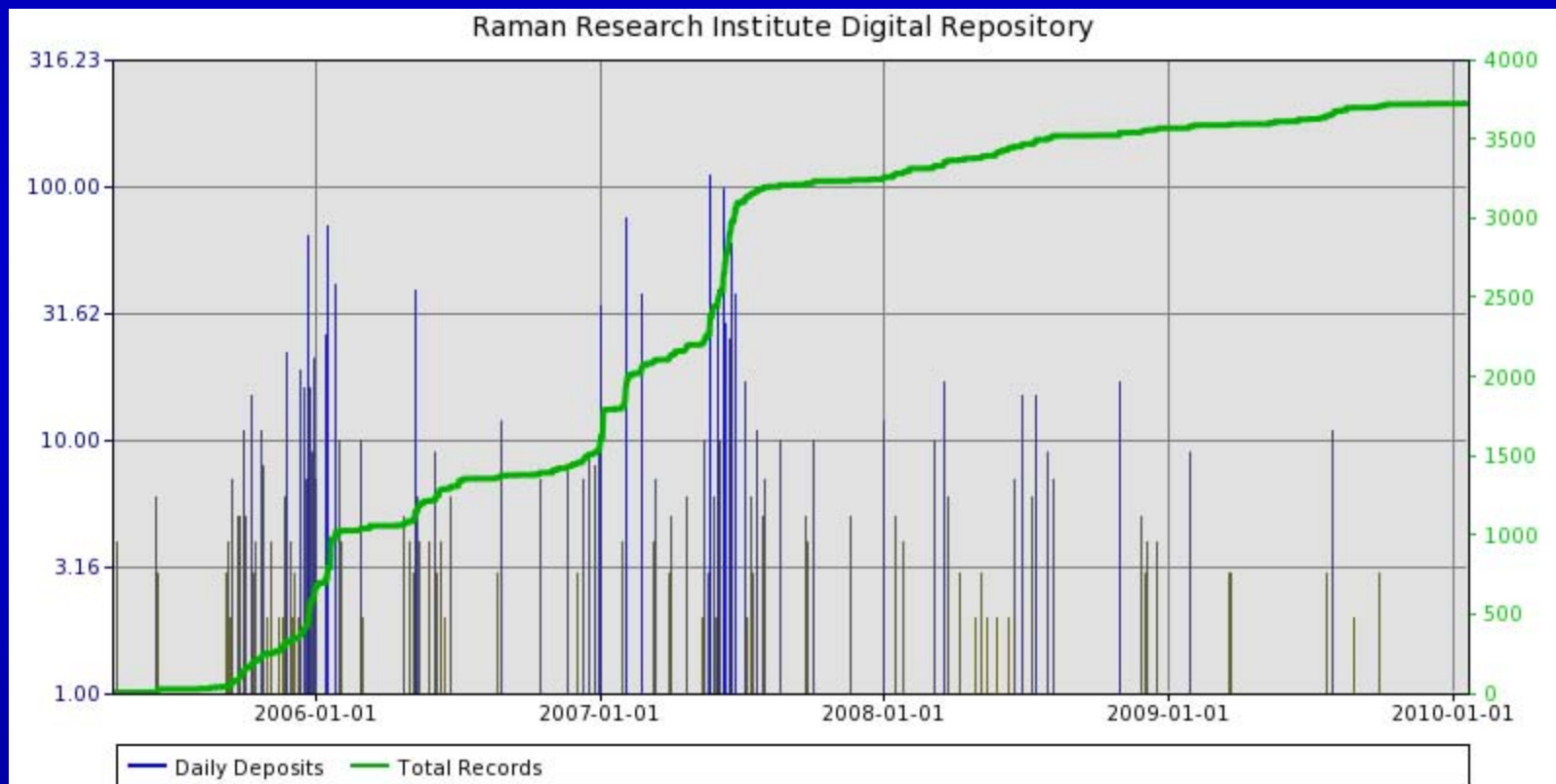
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Activity graph for our repository from ROAR



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Communities and Collections

Shown below is a list of communities and the collections and sub-communities within them. Click on a name to view that community or collection home page.

- **01. Archives** [752]
 - Annual Reports [30]
 - Gandhi Memorial Lectures [13]
 - Newspaper Clippings [709]
- **02. C.V. Raman and his work** [514]
 - Biographical Sketches and Other Articles on Raman [12]
 - C.V. Raman - Lectures and Miscellaneous Writings [26]
 - C.V. Raman - Scientific Papers, Vol.1. Scattering of Light [103]
 - C.V. Raman - Scientific Papers, Vol.2. Acoustics [53]
 - C.V. Raman - Scientific Papers, Vol.3. Optics [67]
 - C.V. Raman - Scientific Papers, Vol.4. Optics of Minerals and Diamond [77]
 - C.V. Raman - Scientific Papers, Vol.5. Physics of Crystals [91]
 - C.V. Raman - Scientific Papers, Vol.6. Floral Colours and Visual Perception [85]
- **03. Science at the Raman Institute: 1948-1970** [61]
 - Research Papers [61]
- **04. Astronomy and Astrophysics** [790]
 - Research Papers (A&A) [749]
 - Technical Reports (A&A) [4]
 - Theses (A&A) [37]
- **05. Light and Matter Physics** [144]
 - Research Papers (LAMP) [139]
 - Theses (LAMP) [5]
- **06. Soft Condensed Matter** [976]
 - Patents (SCM) [1]
 - Research Papers (SCM) [907]
 - Theses (SCM) [68]
- **07. Theoretical Physics** [434]
 - Research Papers (TP) [417]
 - Technical Reports (TP) [2]
 - Theses (TP) [15]
- **08. Patents** [3]
 - Patents [3]
- **09. RRI Science News** [4]
 - RRI's Research in the News [4]
- **10. Miscellaneous** [112]
 - Miscellaneous Publications [111]
 - Theses (Miscellaneous) [1]

Unique features

- Contains all the research publications of our institute
- Rich source of information on C.V. Raman and his work
 - C.V. Raman's collected papers (474)
 - C.V. Raman's lectures and miscellaneous writings (18)
 - Biographical sketches and articles on Raman (12)
 - Newspaper clippings from the Raman archives (709)

Future plans

We plan to add the following collections in the future:

- Photo gallery : Photographs from our archives
- Audio recordings of lectures by Raman

World Ranking of our Repository (January 2010)

It is ranked 265 among the top 400 Institutional repositories of the world

Source:

http://repositories.webometrics.info/top400_rep_inst.asp?Orden=na&offset=150

Open Access and the RRI Digital Repository

- We provide open access to the full-text of papers wherever the publisher gives permission to do so.
- Where this is not possible, we restrict access to the full-text and make only the bibliographic details available. If possible, we also provide a link to an alternative location, e.g. on a publisher's site.

Open Access and the RRI Digital Repository (contd.)

- In case an open-access version is available at arXiv.org or at any other website, we give a link to it.
- Many RRI authors have been following the self-archiving tradition established in the fields of physics and astronomy by depositing their papers in arXiv.org. Hence many of our papers are already open access.
- The earliest open-access RRI paper in arXiv.org is dated 1993!

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 04. Astronomy and Astrophysics >
 Research Papers (A&A) >

Please use this identifier to cite or link to this item: <http://hdl.handle.net/2289/3812>

Title: HI content and star formation in the interacting galaxy Arp86

Authors: Sengupta, Chandreyee
 Dwarakanath, K.S.
 Saikia, D.J.

Issue Date: Jul-2009

Publisher: Wiley Interscience for the RAS

Citation: Monthly Notices of the Royal Astronomical Society, 2009, Vol.397, p548

Abstract: We present the results of Giant Metrewave Radio Telescope (GMRT) observations of the interacting system Arp86 in both neutral atomic hydrogen, H i, and in radio continuum at 240 606 and 1394 MHz. In addition to H i emission from the two dominant galaxies, NGC 7752 and NGC 7753, these observations show a complex distribution of H i tails and bridges due to tidal interactions. The regions of highest column density appear related to the recent sites of intense star formation. H i column densities $\sim 1-1.5 \times 10^{21} \text{ cm}^{-2}$ have been detected in the tidal bridge which is bright in Spitzer image as well. We also detect H i emission from the galaxy 2MASX J23470758+2926531, which is shown to be a part of this system. We discuss the possibility that this could be a tidal dwarf galaxy. The radio continuum observations show evidence of a non-thermal bridge between NGC 7752 and NGC 7753, and a radio source in the nuclear region of NGC 7753 consistent with having a low-ionization nuclear emission region nucleus.

Description: Restricted Access. An open-access version is available at arXiv.org (one of the alternative locations)

URI: <http://hdl.handle.net/2289/3812>

ISSN: 0035-8711
 1365-2966 (Online)

Alternative Location: <http://adsabs.harvard.edu/abs/2009MNRAS.397..548S>
<http://arxiv.org/abs/0904.4908>
<http://dx.doi.org/10.1111/j.1365-2966.2009.14968.x>

Copyright: 2009 Wiley Interscience for the RAS

Appears in Collections: Research Papers (A&A)

Files in This Item:

File	Description	Size	Format
2009 MNRAS V397 p548.pdf	Restricted access	8.34 MB	Adobe PDF View/Open

[Show full item record](#)

Items in DSpace are protected by copyright, with all rights reserved, unless otherwise indicated.

Open Access and the RRI Digital Repository (contd.)

- We have made the following open access after seeking and obtaining permission from the publishers:
 - C.V. Raman's collected papers (**474**)
 - C.V. Raman's lectures and miscellaneous writings (**18**)
 - Biographical sketches and articles on Raman (**12**)
 - Newspaper clippings from the Raman archives (**709**)

Lessons learned

An institutional repository involves a long-term commitment on the part of that institution.

- Infrastructure support
- Technical support
- Manpower support
- Support for policy matters

Content development is the biggest challenge

- Authors are not interested in posting their papers voluntarily

Reasons for poor response from authors:

- Authors are not willing to take on additional work;
- They are afraid of violating copyright. They do not read the copyright transfer form fully before they sign and are not aware of their rights;
- Fear of plagiarism;
- Benefits not immediately obvious – why deposit in an institutional archive when their papers can be found on arXiv?

Mediated Deposit

- Mediated Deposit is the only answer to this problem
- At RRI, almost the entire content has been added by the project team on behalf of the authors
- First to be added were the newspaper clippings
- Next we added papers whose publishers gave permission to host the published pdfs (Indian Academy of Sciences, American Physical Society, American Institute of Physics, IEEE)

Mediated Deposit – Advantages

- The quality and consistency of metadata is ensured
- Copyright compliance and correct file format is also ensured
- The repository can be populated quickly

Content Harvesting

- Content has to be harvested from a variety of sources using modern technology.
- Many articles may be already available open access on the web from the following sources:
 - Authors' personal web pages
 - Publisher's websites
 - NASA ADS
 - arXiv.org

Content Harvesting (contd.)

- It is better not to be over-ambitious and focus on some particular type of content or some department.
- It is important to secure fresh born-digital articles before they are lost.

Old is Gold!

- Some old papers are important historically and difficult to find online. They need to be made open access with permission from the publishers and made accessible through IRs.
- We were able to do this for C.V. Raman's papers and newspaper clippings about him;

Institutional Repositories in the world of arXiv

- In physics and astronomy, authors have a long tradition of posting their papers in arxiv.org.
- Institutional Repositories have several distinct functions which are different from that of arXiv. Both of them have important roles to play in scholarly communication.

Role played by an Institutional Repository

- An Institutional Repository can showcase all the research publications and grey literature of the institute and enhance the prestige of the institute and the visibility of the faculty;

Role played by an Institutional Repository (contd.)

- It collects and preserves all the publications of the institute in a central place - thus making them available to students and researchers whenever needed. It thus enhances the teaching, learning and research of the institute;
- It supports the open access movement and plays a role in the scholarly communication process.

Role played by an Institutional Repository (contd.)

- It adds one more dimension to the role of the library.
- By providing access not only to the research publications of our institute, but also to the historical records of the institute (Annual reports, newspaper clippings) and providing information about our founder and his work, we believe that we are providing an additional and important specialized information service.

Thank you!