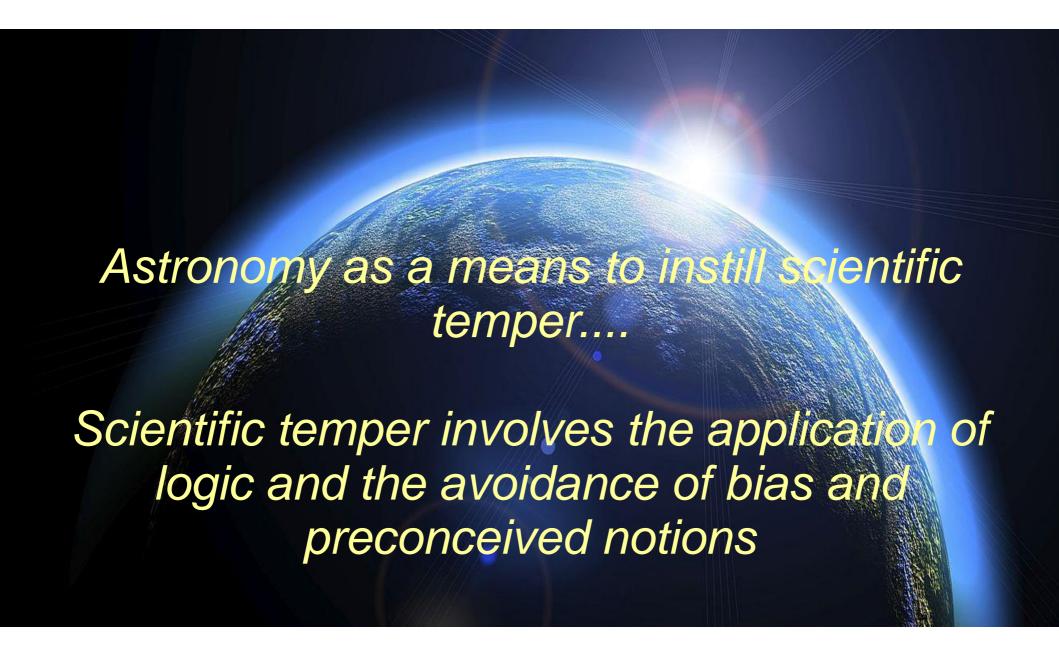


The steps to the future

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A three step process:

Outreach: Education:

General Public Childhood

Schools School

University University

"In science —in fact, in most things —it is usually best to begin at the beginning. In some things, of course its better to begin at the other end. For instance, if you want to paint a dog green, it might be best to begin with the tail, as it doesn't bite at that end. And so …."

- Lewis Carrol



Childhood

- Lack of inspiring teachers, low self esteem
- Large number
- Syllabus

Parents

Peer pressure

Exams, Grades

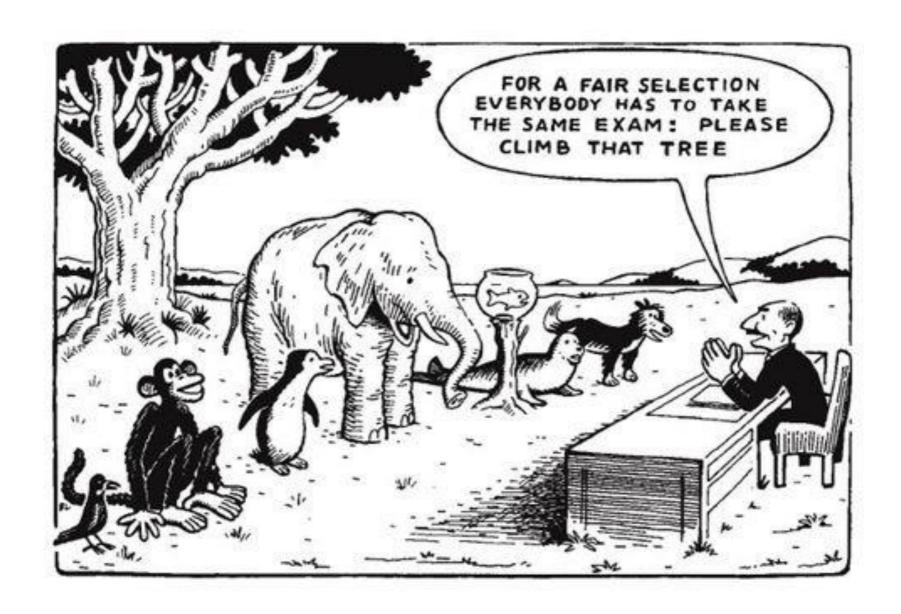
Lack of practicals/demos

Distrust between the two, Mismatch of Expectations

"I have never let my schooling interfere with my education."

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Einstein on formal education "Education is what remains after one has forgotten what one has learned in school" and "It is a miracle that curiosity survives formal education" and finally "The only thing that interferes with my learning is my education".



Olympiads, KVPY

Astronomy Olympiads being different from Physics Olympiads & KVPY:

- Not part of regular competitive exams
- Care taken to frame new questions
- A good number are interested in serious/professional astronomy

Astronomy Education

- Courses at UG, PG
- PG Astro...eligibility to teach
- PhD Astronomy, Issues in Biological Sciences
- Jobs
- NET

After PhD

- Lack of jobs, Career options
- Leaking pipe



Outreach

- School Children
- Olympiads
- Project Students
- Career Counselling

Schools



Vernacular languages
Activities
Trips
Range of Eco/Socio classes



Telugu? Urdu? Vernacular?



మాట్లాదుతున్న పాసన్

ಜಮ್ಮಿಕುಂಟ :

విశ్వంలో గ్రహాలు ఎనిమిదే అని 🔹 జమ్మికుంట డిగ్రీ బ్రముఖ ఖగోళ శాస్త్రవేత్త ప్రాఫెసర్ ఎస్ ఎన్ హానన్ అన్నారు. సోడుచారం అయన జమ్మికుంట చ్రభుత్వ డిగ్రీ కళా - టెలీస్కోస్ నిర్మాణంపై వివరించారు. అనే ఆంశంపై నిర్వహించిన వర్క్షషా (పాజెక్టర్ జీవిత కాలం, నక్ష్మతాల వయసు, బిగ్ పరిశోధనలో పూటో బ్యాంగ్ సిద్ధాంతం, కృష్ణబిళాలు,

- శాస్త్రవేత్తల వెల్లడి
- కళాశాలలో వర్క్షేషాప్

శాలలో ×విశ్వం-దాని అవిర్భావం₹ విద్యార్థులకు తేలికగా అర్ధమయ్యేలా ప్లో మాట్మాడారు. గ్రహాలు, వాటి కెల్పించారు. 2008 తర్వాత శాస్త్రవేత్తల ජීවීරක්ත්තුරා.



నదస్సులో పాల్గొన్న విద్యార్థులు

ఎలాంటి వాతవారణం లేకపోవడం, వారిని అభినందించారు. సరికొత్త దాని గురుత్వాకర్గణే కారణమన్నారు. ఆలోచనలతో నూతన ఆవిష్కరణలు





Shristi Astronomy



Shristi. The universe beckons.

Shristi is a medium for curious minds to explore the wonders of astronomy with expert and professional guidance.

Olympiads

Problem Solving

Nurture Camp:

Taste of research



Winter Schools with UWO (UG+PG)



IAU OAD 12 countries!! One sky!!!



SWAN (Sky Watch Array Network)



ASI-POEC



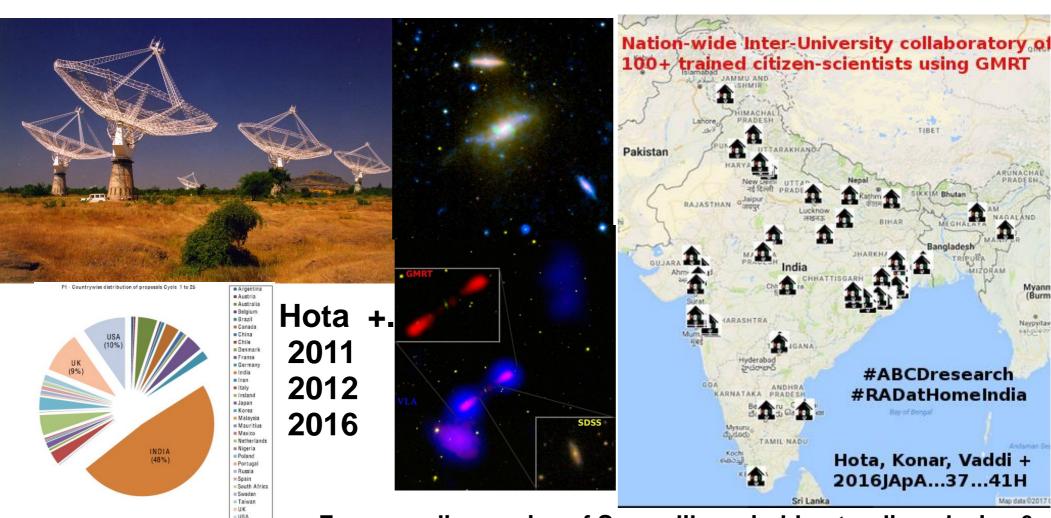
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Priya Shah Hasan

- Exposure Camps
- Jantar Mantar
- Festival of Measurement
- Astrophotography
- Exhibition
- Competition
- Astronomy Films
- Zero Shadow Day

RAD@home Astronomy Collaboratory, India

The only Indian Citizen-science research programme in Astronomy Any BSc/BE Can Do research using GMRT sitting @home anywhere in India http://adsabs.harvard.edu/abs/2016JApA...37...41H



For more discoveries of Speca-like spiral-host radio galaxies & NGC3801-like cases of AGN-feedback in galaxy evolution GMRT + Peoples-power in SKA-era

RAD@home Citizen-science with GMRT

First Indian citizen-science research program. Founded in April 2013 by Dr. Ananda Hota.

It is zero-funded, zero-infrastructure initiative and is run through Facebook/Google.

RAD@home creates a platform of equalopportunity of growth for science-educated Indian citizens through Internet, independent of their socio-economic and geo-political status.

Anyone (student/employed/unemployed) with a bachelor degree (in any STEM field) can join the group and do research sitting at home.

RAD@home Citizen-science with GMRT

GMRT time was approved at 4 cycles for several of the newly discovered objects. This reflects scientific importance of the newly discovered objects and quality of the research proposal.

Article published in the Indian Academy of Sciences in the special issue of the Journal of Astrophysics and Astronomy titled

"Science with the Square Kilometre Array: An Indian Perspective". (http://astron-soc.in/bulletin/asics_vol013/pdfs/141_A_Hota.p df)

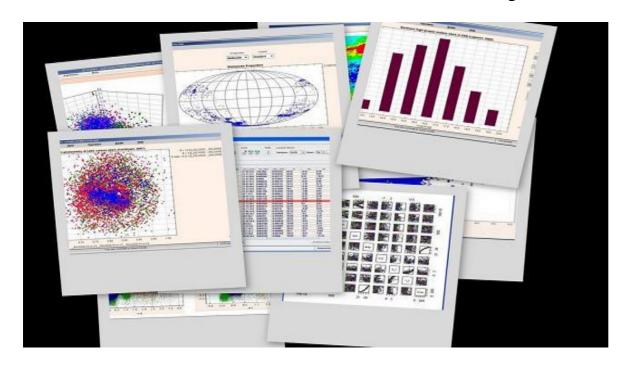
Astro-Themed Expts

The Public Outreach and Education Committee (POEC) of the ASI, IUCAA:

18-20 June 2018, "Workshop for developing astronomy-themed experiments for colleges and universities".

The idea is to bring together teachers and researchers from Universities and Institutes to collate, discuss, analyse and document possible astronomy-themed experiments that could potentially be introduced in the physics syllabi at BSc and MSc levels in India.

Virtual Observatory India





Good Data Practices:

Data + Software interface

VO Standards, Visualization

Code to be used at data itself...python

VO-DataArchives



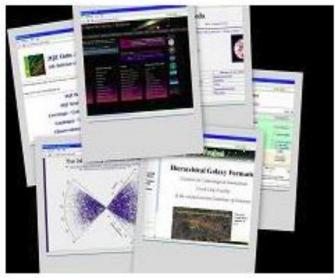
2dfGRS - 2 Degree Field Galaxy Redshift Survey

2MASS-Two Micron All Sky Survey

2QZ - 2 Degree Field QSO Survey

Chandra - Data Available via FTP

HYPERLEDA - The Hyperleda Mirror

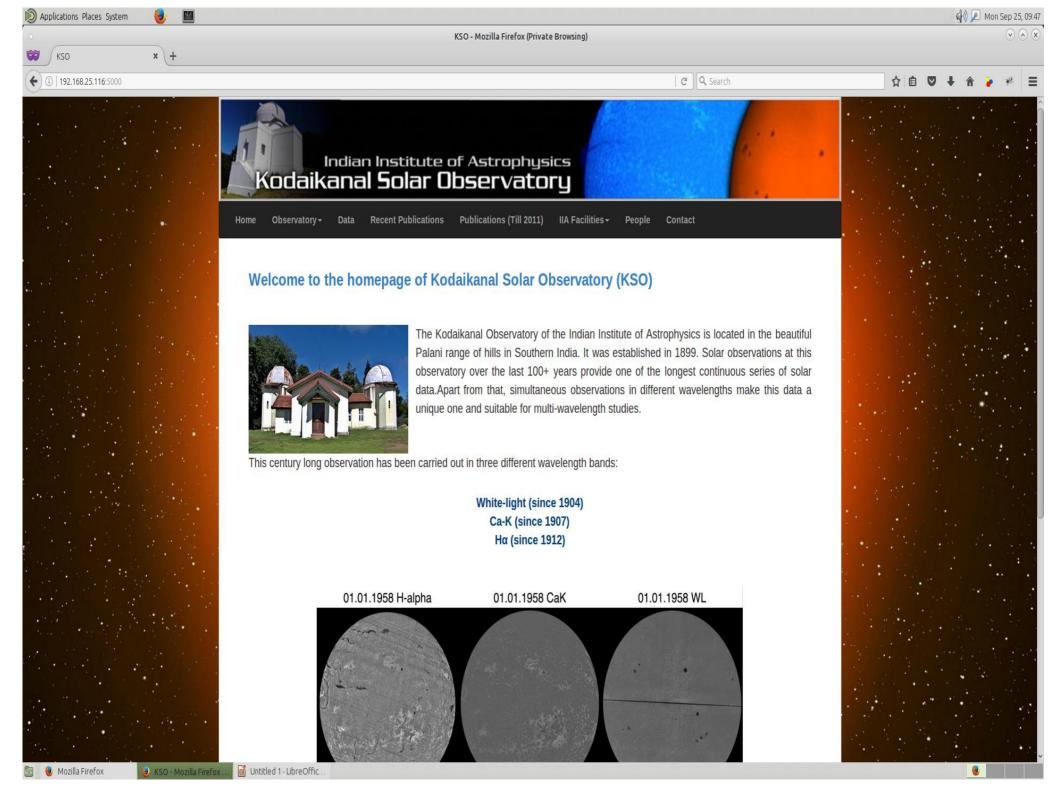


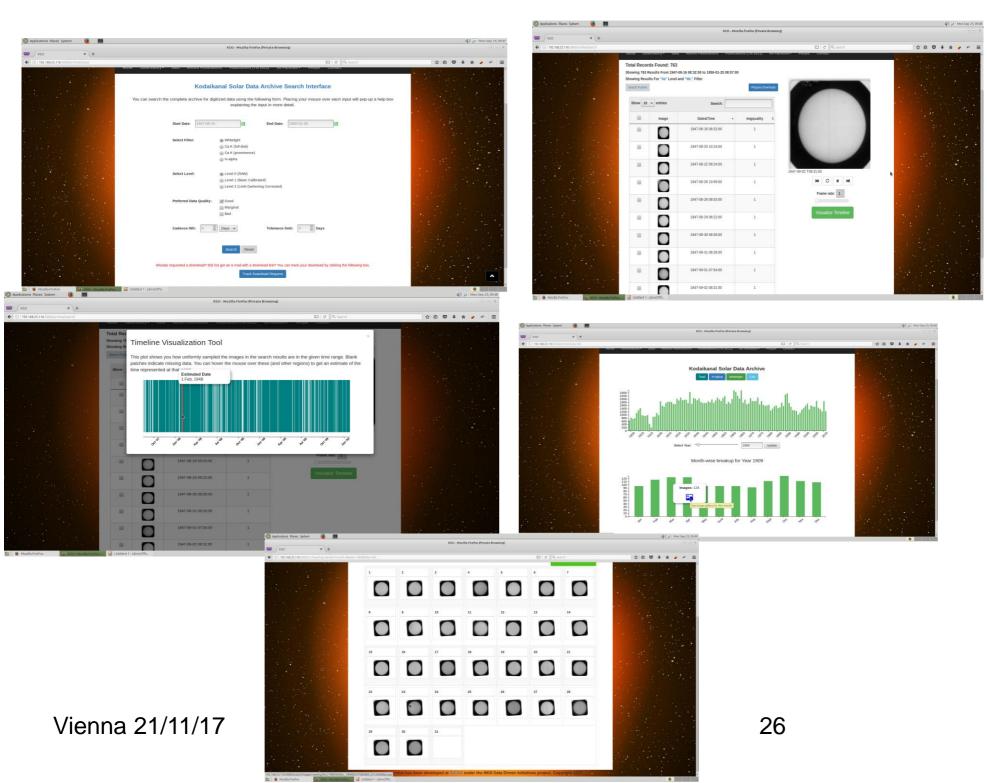
NIRLIB - A Near-Infrared Stellar Spectral Library

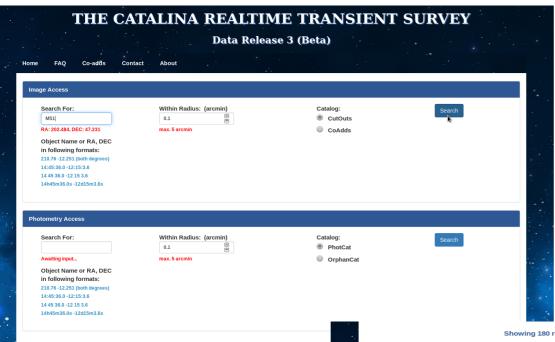
Scisoft - An Astronomical Software Collection

SDSS - Sloan Digital Sky Survey, Data Release

VizieR - The VizieR Service







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Showing 180 results from CutOuts for RA = 202.484167°, DEC = 47.230556° within 0.1 arcminutes.

Each image cut-out is on average 16KB in size. Estimated download size for all images is \sim 2.81MB.

Note: OBS-DATE in YYYY-MM-DD format.

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Open universe initiative

The world of archives are full of undiscovered scientific treasures

With this purpose in mind, its upto our imaginatin how to achieve our goals.

Relevant data information

Raw, catalogues, images, spectra, time-series,

visualizations

Personalized, client-centric

The sky is the limit...upto your imagination!!