

**Programme for Research-Development-Innovation on
*Space Technology and Advanced Research - STAR***

Participation to the scientific ESA Programmes
STAR SCIENCE

Andreea FAZACAS

- **Coordinating organization:** Institute of Atomic Physics

- **Project manager:** Florin Dorian BUZATU,
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- **Partner organizations:** Institute of Space Science (ISS), University of Bucharest-
Department of Physics (UB-FF), Babes-Bolyai University – Institute of Technology
(UBB), Astronomical Institute of the Romanian Academy (AIRA)

- **Partner(s) team leader(s)**
 - ISS - **Dr. Ion-Sorin ZGURA**, E-mail: szgura@spacescience.ro
 - UB-FF - **Prof. Dr. Stefan Antohe**, E-mail: santohe@solid.fizica.unibuc.ro
 - UBB – **Conf.Dr. Cristina Dobrota**, E-mail: cristina.dobrota@ubbcluj.ro
 - AIRA - **Dr. Cristiana Dumitrache**, E-mail: crisd@aira.astro.ro

- **Short description of the project:**

Given the fact that Romania is a recent member of ESA (since 2011), in order to achieve a fair return on its membership funds in a timely manner it is absolutely necessary for Romania to implement ***a clearly defined National Strategy*** for the development of its R&D and T&E space science and space exploration capabilities.

- **Project goal:** The main objective of the STAR Science project and of the underlying STAR Science consortium is to elaborate a **National Strategy** for the period 2012-2020 that will allow Romania to increase its participation to ESA's science programmes.

- **Objectives:**

- Define and identify scientific niches;
- Developing a National Strategy for the period 2012-2020;
- Providing scientific support for the development of a Romanian point of view to the Council of Ministers of ESA.

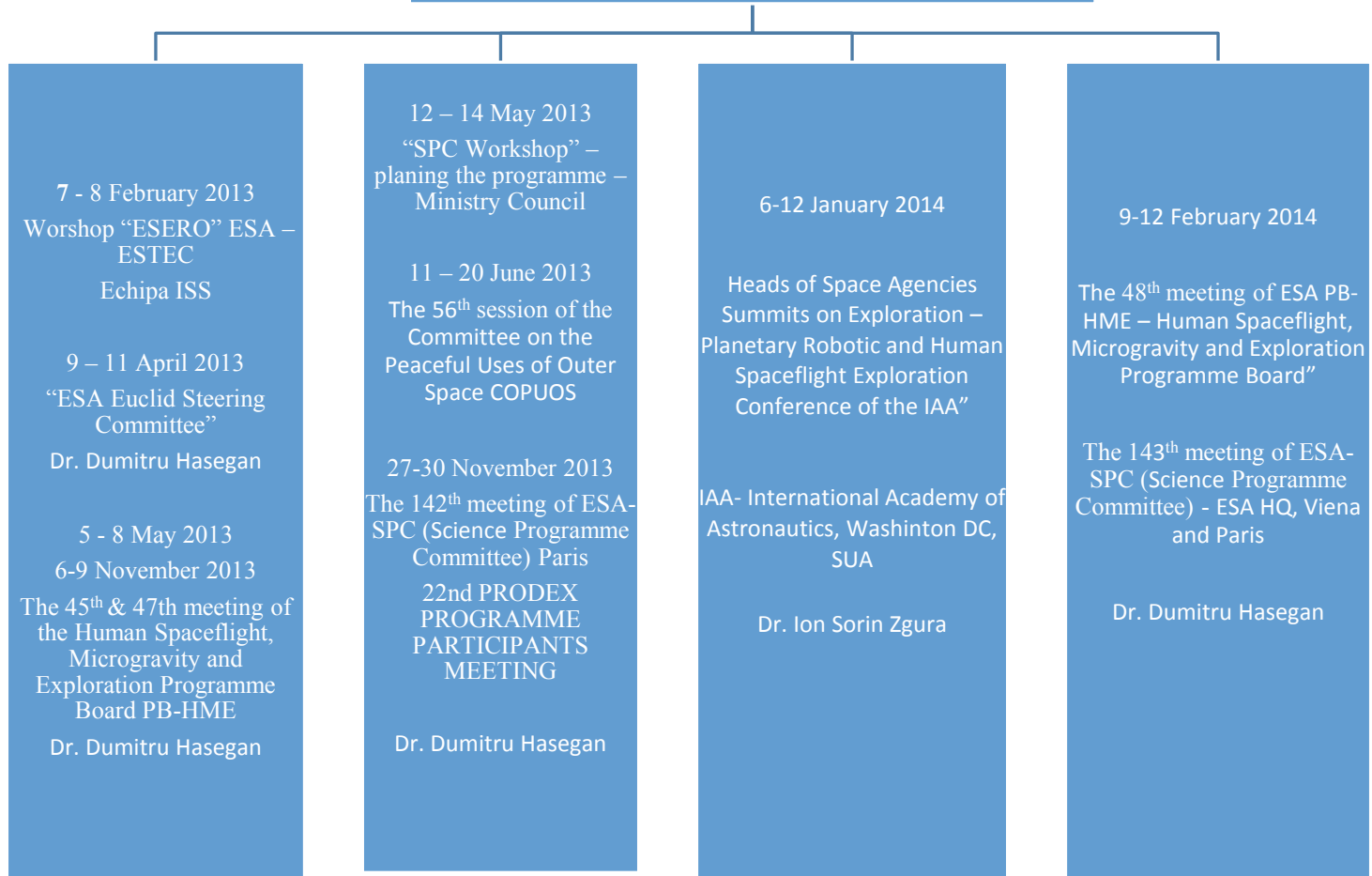
Work plan of the project

Task name	Activities
Development of the Strategy of the Space Science and Exploration of Cosmic Space 2012	Activities 1 – 8 <ul style="list-style-type: none"> - Romanian state of the art in the field; - Economical & commercial opportunities; - Methodologies & instruments for monitoring & evaluation; - Programmes for R&D student trainings; - Opportunities for Spin-off development; - An efficient communication infrastructure; - Outreach; - Technical Workshop & training activities; Specialized training infrastructure.
Strategy and support activities development for ROSA participation to the scientific ESA Programmes 2013	Activities 1- 7 <ul style="list-style-type: none"> - Decisional support for participation to the ESA Committees; - Scientific support for participation to the ESA Committees; - ESA Programmes “Info Day” Conferences; - An efficient communication infrastructure; - Outreach; - Technical Workshop & training activities; - Specialized training infrastructure.
Romania participation to the scientific ESA Programmes 2014	Activities 1- 7 <ul style="list-style-type: none"> - Identifying industrial partners; - Identifying the stakeholders in economical & financial opportunities; - Information Center on technological solutions and practical demonstrations; - An efficient communication infrastructure; - Outreach; - Technical Workshop & training activities; - Specialized training infrastructure.
National Infrastructure for Space Science Development 2015	Activities 1- 9 <ul style="list-style-type: none"> - Relevant indicators for strategies in space science & technologies; - Current & future capacity evaluation in space science and technology; - Identifying the priority areas; activities integration into local and institutional development strategies; - Program for improving institutional structures and processes; sustainability; - Program for strengthening the skills, competencies and abilities of young researchers; - An efficient communication infrastructure; - Outreach; - Technical Workshop & training activities; - Specialized training infrastructure.

2013 - 2014 ESA Committees

Decisional support for participation to the ESA Committees;

Scientific support for participation to the ESA Committees;



Training activities

Bucharest Solar Station (1956-2013)
Cristiana Dumitrache
Astronomical Institute of Romanian Academy

Time milestones

- Founded in 1956
- Solar Disk Observations (1957–1997)
- Solar Disk Eclipse 1999
- 2001–2002: Solar 2
- Active region and flare observations
- 2004 – Solar beam
- 2002–2009 – Repair of the solar dome
- 2008 – New 30 alpha filter

Observational programs

- Solar panel (1957-1997)
- International Geophysical Year (IGY) 1957-1958
- Solar Disk Eclipse 1999
- Solar Panel Project (1977–1997)
- Global Variations of the Solar Magnetic Field (1981-1985-1986)
- INTENSE/INTEGR (1984-1997)
- Campaigns of observations (2001-2004)

Observations Solaris Bulletin

Observations Solaris Bulletin (Bucharest, Romania) Published Since 1956
1956 - French language, prepared for the Scientific Academy Year, was the main journal that published the entire data registered during the solar panel observations at Bucharest Observatory. The Bulletin is actually a color catalog containing data of our activities (photographic plates, films, etc.) collected with our yearly assets, published in a date as appropriate group activities, the observed Halley Stern and prominent activities.

After 1999

A ST-7 CCD camera, 765 x 510 pixels field of view (1/3 of disk the solar disk), was purchased and for the construction of a new instrument. The change does not permit full disk observations and for the solar panel program could not be continued. Observations were only performed in Italy.

Instrument used

1. Chromospheric refractor:
 - Zeiss Biotelar (1957) 130 mm f/9
 - Zeiss Obektiv Biotelar 130 mm f/9.5 (0.67 Å) (2003)
 - CCD camera EIT 765x510 px - 6 frame a frame of the solar disk and a two fold
2. Planographic refractor:
 - Zeiss Achmat (1958) 100 mm f/10
 - Six light observations by projection on a screen.

No resources are set assigned for solar panel.


Future plans

- New CCD camera for the observations
- Replacement of the chromospheric refractor by full disk CCD observation
- New CCD camera for the chromosphere
- Observing solar technology needed for instruments and software participating in the Romanian Network for solar panel (under review)

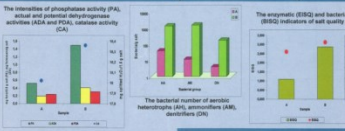
CHARACTERIZATION OF HALOPHILIC BACTERIAL COMMUNITIES IN TURDA SALT MINE (ROMANIA)
Rahela CARPA, Anca KEUL, V. MUNTEAN, Cristina DOBROTA
Babeş-Bolyai University, Institute of Technology/Technology, Faculty of Biology and Zoology, 1, K. Kogălniceanu, 400384, Cluj-Napoca, Romania. E-mail: r.carpa@yahoo.com

Aim of the work
To find a research tool in order to evaluate the functional diversity of the microbiota adapted to extreme salinity environment.

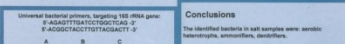
Sampling sites



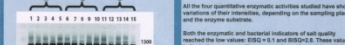
The intensities of phosphatase activity (PPA), nitrate and potential denitrification activities (NDA and PDA), substrate activity (SA).



The enzymatic (EPS) and bacterial (BSQ) indicators of salt quality



The bacterial number of aerobic heterotrophic (AH), anaerobic (AN), denitrifiers (DN)



Conclusions

The identified bacteria in salt samples were aerobic heterotrophic, anaerobes, denitrifiers.

All the four quantitative enzymatic activities studied here showed variations of their intensities, depending on the sampling place and the enzymatic class.

Both the enzymatic and bacterial indicators of salt quality reached the low values. EPS < 5.1 and BSQ < 2.8. These values indicate the presence of low enzymatic and bacterial potential in these samples.

PCR amplification of 16S rRNA gene from bacterial isolated from Turda Salt Mine shown a characteristic band of about 1300 bp for each sample.

Acknowledgements: This work was financially supported by a grant from Romanian Space Agency (ROSA), STAR Technology, Romania, PCR 1201.

ESA Programmes “Info Day” Conferences;
An efficient communication infrastructure;
Technical Workshop & training activities;
Specialized training infrastructure.

Technical Workshop & training activities

Training activities - UBB: EXPOSE facilities, Exoplanets; Desiccation and radiation resistance of extremophiles, Extremophilic microorganisms, Evolution: Origins of Cellular Life

Workshop "Cosmical Phenomena That Affect Earth And Their Effects,, IAAR - 18 October 2013; Internship “Reduction and analysis of spectroscopic data”

School Hot topics in Astrophysics, together with OPTICON; September 24-28, 2013

ISS Talks : Prof. Dr. Benjamin Harms, Prof. Tkachev L.; Tkacenko A.; Prof. Dr. Ken-Ichi Nishikawa; Prof. Dr. Roberto Casadio

Participating in Optional Programme INFO DAY – ESA-ROSA; PRODEX - ROSA; JRC Conference Italy- Ispra; GMES Conference

YouTube Desiccation and radiation resistance of extremophiles

esa

Radiation and desiccation resistance of hyperthermophilic microorganisms

Petra Rettberg¹ and Kristina Beblo-Vranesovic², Reinhard Rachel², Reinhard Wirth³, Harald Huber¹

¹ German Aerospace Center, Germany
² University of Regensburg, Germany

E-mail: petra.rettberg@dlr.de



2013 Disemination & Outreach activities



Institutul de Fizica Atomica a distribuit un link.
11 noiembrie

[http://www.esa.int/Our_Activities/Observing_the_Earth/GOCE/](http://www.esa.int/Our_Activities/Observing_the_Earth/GOCE)
GOCE_gives_in_to_gravity



GOCE gives in to gravity
www.esa.int

Close to 01:00 CET on Monday 11
ESA's GOCE satellite reentered Ear
atmosphere on a descending orbit
extended across Siberia, the west



Sa stii mai multe, sa fii mai bun!; Cu mic, cu mare prin Univers;
100 de ani de Cercetasi Romani; Workshop. Fizica — Poarta
spre Cunoastere; Noaptea Cercetatorilor 2013.

România «va vâna» materia întunecată din Univers

ARTICOL POSTAT DE: Sorin Golea

1 Comments

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POSTAT: 07 Decembrie 2013, Ora 23:45

[P] Joaca GRATUIT Remi si poti CASTIGA bani reali! Joaca si tu!

Trei oameni de știință români vor reprezenta țara noastră într-un proiect foarte ambițios al Agenției Spațiale Europene, numit "Misiunea Euclid". Practic, va fi lansat un satelit care va căuta răspuns la întrebarea: de ce se dilată Universul cu o viteză din ce în ce mai mare?



2014 State of the art in the field – Romanian ISI Publications

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- Hemispheric Distribution of Subsurface Kinetic Helicity and Its Variation with Magnetic Activity** Times Cited: 0 (from All Databases)
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- Fractal and Multifractal Properties of Active Regions as Flare Precursors: A Case Study Based on SOHO/MDI and SOHO/HMI Observations** Times Cited: 0 (from All Databases)
By Ermoli, I.; Georg, F.; Romano, P.; et al. SOLAR PHYSICS Volume 289 Issue: 7 Pages: 2525-2545 Published: JUL 2014 View Abstract
- Solar Energetic Particles and Associated EIT Disturbances in Solar Cycle 23** Times Cited: 0 (from All Databases)
By Mitra, R.; Klein, K. L.; Kienreich, I.; et al. SOLAR PHYSICS Volume 289 Issue: 7 Pages: 2601-2631 Published: JUL 2014 View Abstract

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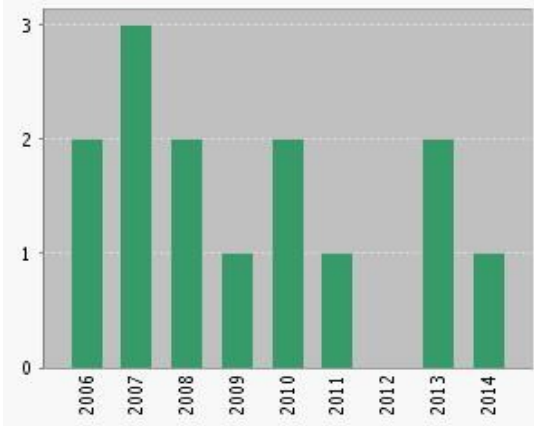
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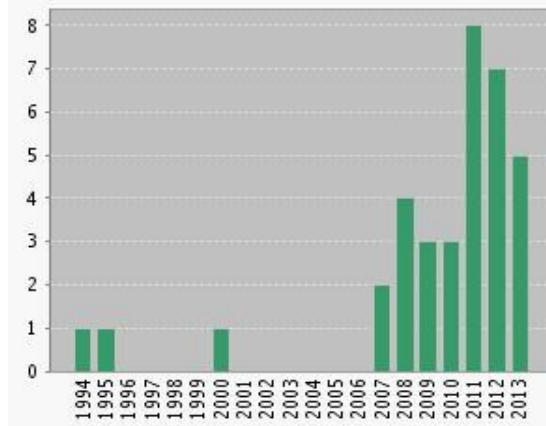
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- A study of solar and interplanetary parameters of CMEs causing major geomagnetic storms during SC 23** Times Cited: 0 (from All Databases)
By Oprea, C.; Mierla, M.; Besliu-Ionescu, D.; et al. ANNALES GEOPHYSIQUES Volume 31 Issue: 8 Pages: 1285-1295 Published: 2013 View Abstract
- Estimating Travel Times of Coronal Mass Ejections to 1 AU Using Multi-spacecraft Coronagraph Data** Times Cited: 6 (from All Databases)
By Kilpua, E. K. J.; Mierla, M.; Rodriguez, L.; et al. SOLAR PHYSICS Volume 279 Issue: 2 Pages: 477-496 Published: AUG 2012 View Abstract
- On Twist Estimation in Active Regions** Times Cited: 0 (from All Databases)
By Dumitrache, Cristiana Dumitru, Liliana Bancu, Valentina Edited by: Sekii, T.; Watanabe, T.; Saiturai, T. Conference: 3rd Hinode Science Meeting Location: Tokyo, JAPAN Date: DEC 01-04, 2009 HINODE-3: THE 3RD HINODE SCIENCE MEETING Book Series: Astronomical Society of the Pacific Conference

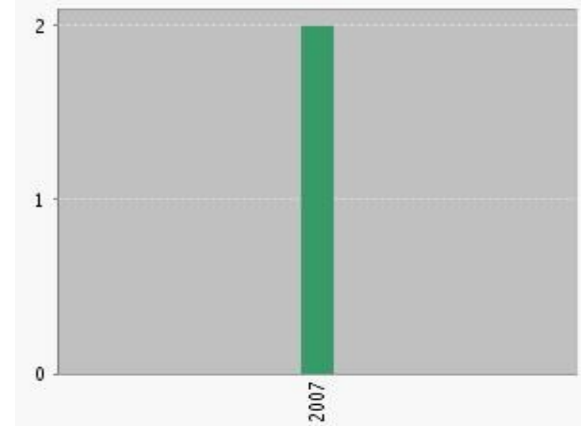
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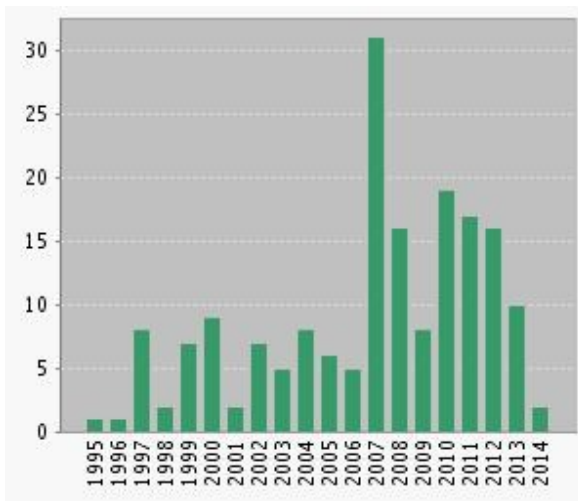
Keyword: coronal loops



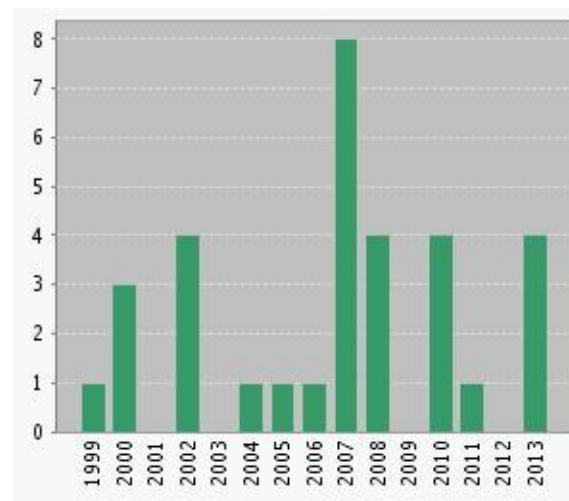
Keyword: coronal mass ejection



Keyword: helioseismology

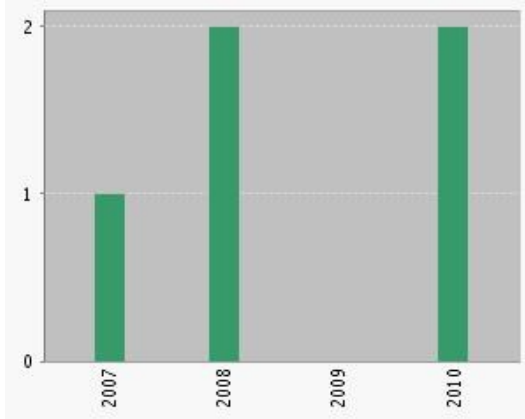


Keyword: solar

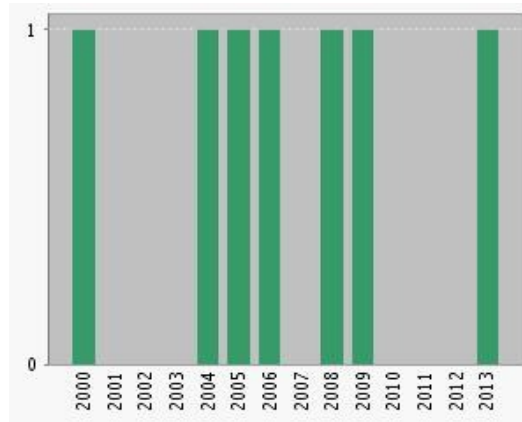


Keyword: solar flares

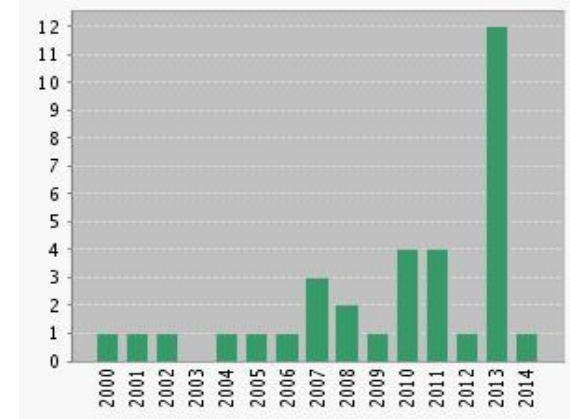
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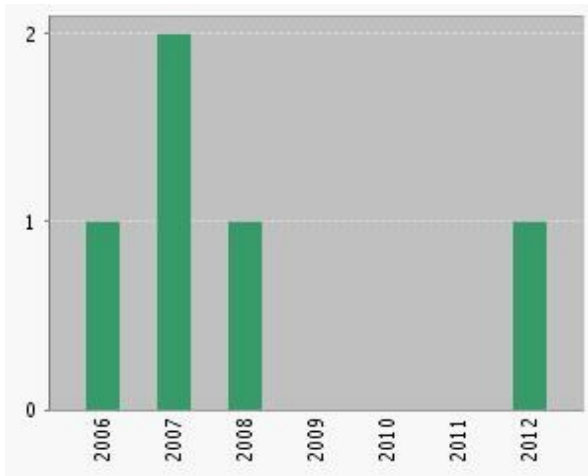
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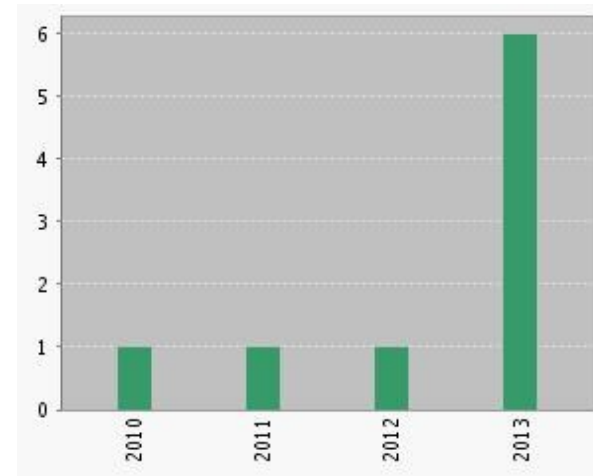
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Keyword: Planck

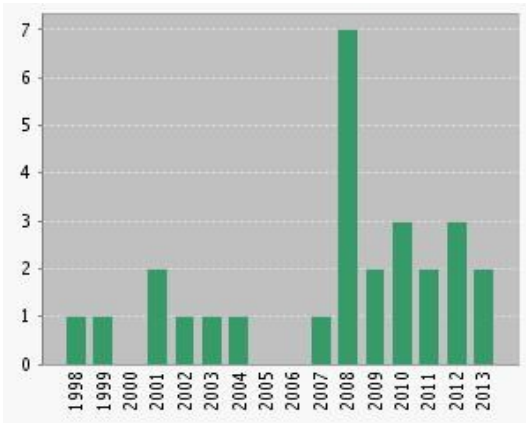


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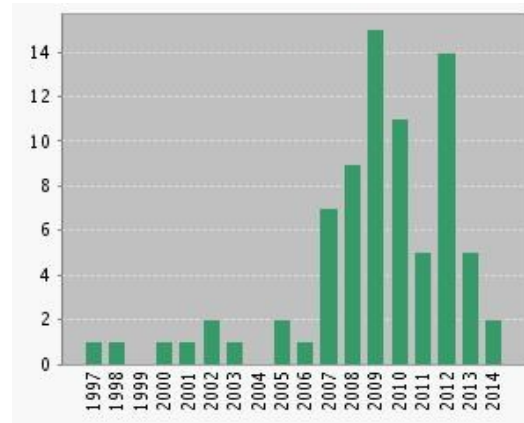


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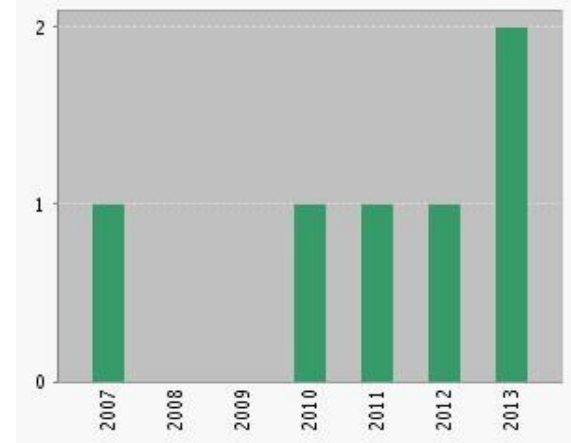
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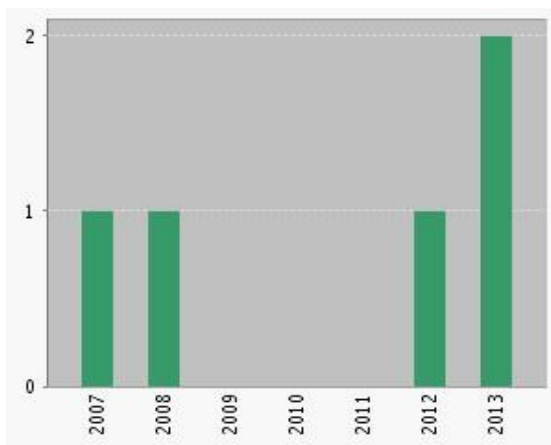
Keyword: aerodynamics



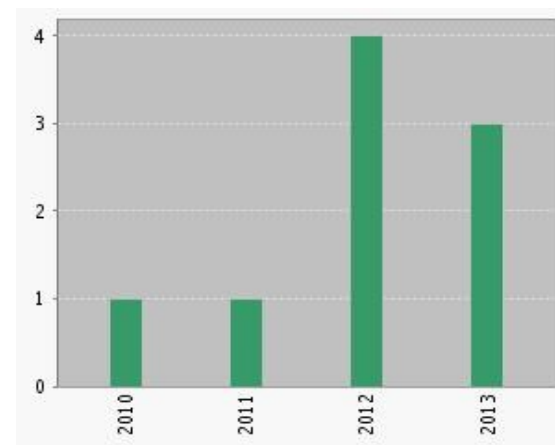
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Clasa = B64G*

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Nr.crt.	Nr. Dosar	Nr. Brevet	Clasa principală	Titlul în limba română
1	95-01647	00116800	B64G 1/00	VEHICUL SPAȚIAL
2	a 2005 00642	00122408	B64G 1/14	NAVĂ SPAȚIALĂ, CU MODULE DE TRANSPORT INTERPLANETAR
3	a 2006 00186	00122961	B64G 1/28	AERONAVĂ CU SERVOMOTOARE DE ECHILIBRU DE STABILITATE ȘI COMANDĂ
4	a 2009 00598	00126190	F02K 9/00	MOTOR RACHETĂ CU FUNCȚIONARE DE TIP "MULTIPULS" ȘI STRUCTURĂ RECONFIGURABILĂ ÎN FUNCȚIE DE CERINȚELE MISIUNII

Pag.: 1

Timp acces=2 secunde

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International Patent Classification (IPC) - WIPO

IPC ⁷

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SECTION B – PERFORMING OPERATIONS; TRANSPORTING

SECTION C – CHEMISTRY; METALLURGY

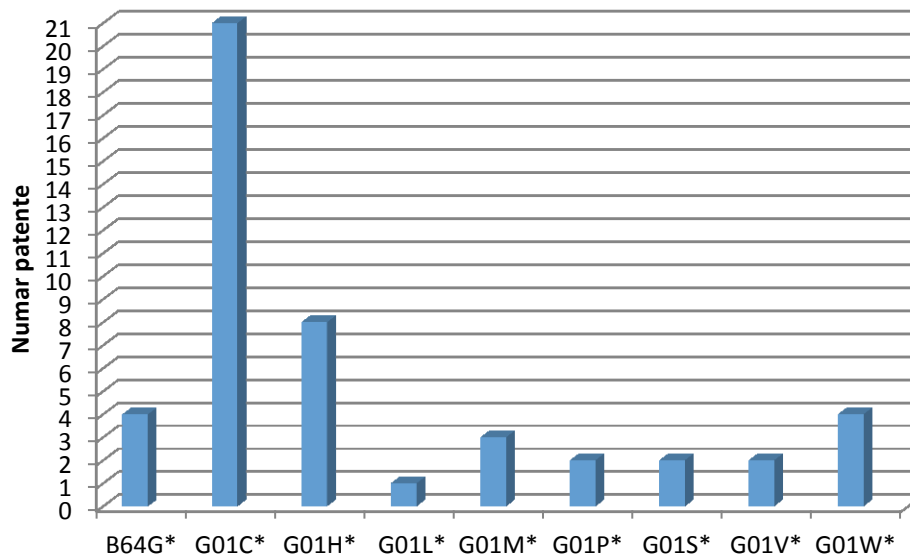
SECTION D – TEXTILES; PAPER

SECTION E – FIXED CONSTRUCTIONS

SECTION F – MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING

SECTION G – PHYSICS

SECTION H – ELECTRICITY



Clasa B64G* - COSMONAUTICS; VEHICLES OR EQUIPMENT THEREFOR

Clasa = G01C* - MEASURING DISTANCES, LEVELS, OR BEARINGS; SURVEYING; NAVIGATION; GYROSCOPIC INSTRUMENTS; PHOTOGRAMMETRY

Clasa G01H* - MEASUREMENT OF MECHANICAL VIBRATIONS OR ULTRASONIC, SONIC OR INFRASONIC WAVES

Clasa G01L* - MEASURING FORCE, STRESS, TORQUE, WORK, MECHANICAL POWER, MECHANICAL EFFICIENCY, OR FLUID PRESSURE

Clasa G01M* - TESTING STATIC OR DYNAMIC BALANCE OF MACHINES OR STRUCTURES; TESTING STRUCTURES OR APPARATUS NOT OTHERWISE PROVIDED FOR

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Clasa G01V* - GEOPHYSICS; GRAVITATIONAL MEASUREMENTS; DETECTING MASSES OR OBJECTS; TAGS

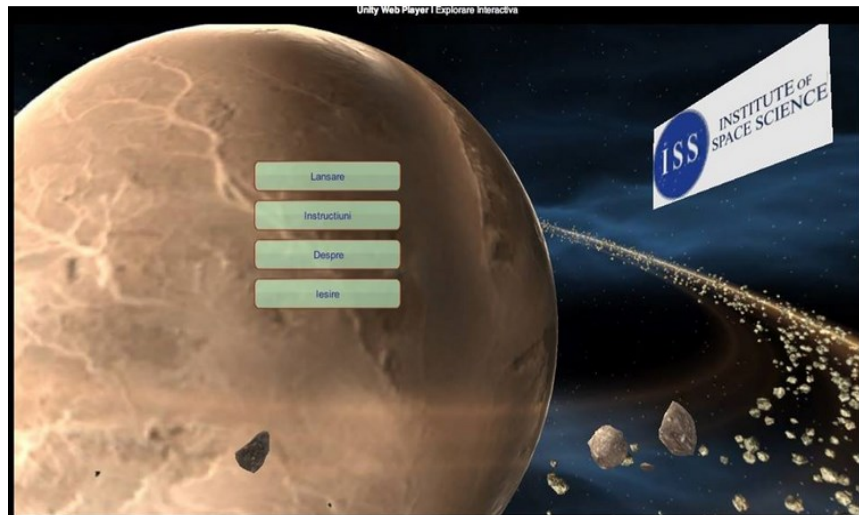
Clasa G01W* - METEOROLOGY

2014 Disemination & Outreach activities



ISS - Institute of Space Science
3 hours ago

Explorează Sistemul Solar din fața calculatorului <http://www2.spacescience.ro/?p=2533>



Sa stii mai multe, sa fii mai bun!; Social network.



Institutul de Fizica Atomica
acum 5 ore

In data de 13 Mai 2014, in cadrul evenimentului Romanian Space Week, a avut loc o intalnire pentru lansarea Biroului European de Resurse pentru Educatie Spatiala (ESERO-Romania)

ESERO este un proiect initiat de catre ESA cu scopul de a folosi fascinatia pe care o prezinta domeniul spatial pentru a incuraja predarea si invatarea de materii STEM (Science, Technology, Engineering, Mathematics) in scolile europene primare si secundare.

Mai multe informatii:

<http://www.rosa.ro/index.php/ro/comunicare/1224-lansarea-biroului-european-de-resurse-pentru-educaie-spaial-in-romania.html>




2



2014 Planned activities

- Database to identify the potential collaborators from SME that can perform a technologic transfer (electronics);
- Continue to search keywords for Romanian ISI Publications in Web of science database - <http://apps.webofknowledge.com/>
- Continue the search for Romanian patents in other external databases like EspaceNET from European Patent Office - <http://worldwide.espacenet.com/>
- Continue the students training to ensure the continuity in the field;
- Continue to disseminate ESA related activities;
- Encourage researchers to apply for other types of funding: Horizon 2020.

Proposal Evaluation Form						
		EUROPEAN COMMISSION Horizon 2020 - Research and Innovation Framework Programme			Evaluation Summary Report	
Call:		H2020-MSCA-NIGHT-2014				
Funding scheme:		Coordination & support action				
Proposal number:		633311				
Proposal acronym:		RoTalkScience				
Duration (months):		5				
Proposal title:		RESEARCHERS' NIGHT in ROMANIA. Do you speak science?				
Activity:		H2020-MSCA-NIGHT-2014				
N.	Proposer name	Country	Total Cost	%	Grant Requested	%
Total:			0		0	

Abstract:

ROTalkScience

Researchers' Night in Romania for
2014 and 2015.

- Project's contribution to the goal of the STAR Programme

National Strategy in the field

Identifying new niches CDI space science:

- This project will be the basis of the development of the Romanian space programs integrated to ESA programs.
- The assessment of current Romanian space policies, and the assessment of the research teams which may be constantly involved in space research, as well as of the industrial partners may open a new direction of joint research and of collaborative projects with ESA.

Conclusions:

- participation to international trainings in order to ensure continuity in the field;
- Increase the number of Romanian Space Science Experts;
- Strong partnerships to increase the Romanian participation to ESA Programmes;
- Outreach activities.