

NPL FORMER SCIENTISTS FORUM

**Minutes of the Twenty-eighth Meeting of the Forum,
held in the TEC Conference Room, NPL on August 08, 2012 at 10.30 A.M.**

The following Agenda for the meeting had been notified by Shri G K Arora, the Secretary of the Forum vide his letter dated 27th July 2012. The notice for the meeting had been sent by ordinary post to all the members of the Forum as also by e-mail to those members who could be so contacted. Ten prospective members of the Forum were also invited. Draft Guidelines for NPL Pensioners regarding Steps Needed for Treatment Under Medical Emergency which had been sent by the Secretary to COA, NPL for his Views & Suggestions (**Annexure 'A'**) had also been circulated with this notice, as also a reminder for two passport size photographs from those members who had not furnished the same in response to the notice dated 19th April for the earlier General Body Meeting on 2nd May 2012.

AGENDA

1. Welcome by the President and Introductory Remarks.
2. Status Report by the Secretary (To be circulated at the time of the meeting).
3. Ratification of the Audited Statement of Accounts for the Year 2011-12.
4. Appointment of Auditors for the year 2012-13 and beyond.
5. Presentation to the Forum of his book "Panch Saw Saal Ka Safar Nama" for the Forum's library by Dr. R C Saksena, and recounting his farewell from NPL expressed in poem by him in this book.
6. Felicitation of Shri Kailash Chand (Sharma) as a New Member of the 80-Plus Fraternity of the Forum by Dr. V N Bindal.
7. Invited Talk by Dr. Kirti Ranjan, Associate Professor, Department of Physics & Astrophysics, on "Observation of a new boson at LHC – Higgs or an Imposter".
8. Release of the Special Issue of the Forum's Newsletter on "Nanotechnology for the Masses" by Dr. V N Bindal.
9. Socializing over a cup of tea
10. Any other issues of common interest to the Members.

Attendance: The following members had attended the meeting:

(Names arranged alphabetically by the Surname)

1.	Aggarwal , Rajendra Kumar (Dr.)	20.	Gupta , Jitendra Kumar (Dr.)	39.	Panwar , Vinay Singh (Dr.)
2.	Aggarwal , Santosh (Mrs.)	21.	Gupta , Satish Chander	40.	Saksena , Rakesh Chandra (Dr.)
3.	Anandani , Ramesh Chandra	22.	Jain , Adeshwar Preshad (Dr.)	41.	Sarkar , Swapan Kumar (Dr.)
4.	Arora , Gyanendra Kumar	23.	Jain , Atma Ram (Dr.)	42.	Sehgal , Madan Gopal
5.	Basu , Amitabha (Dr.)	24.	Jain , Prakash Chandra (Dr.)	43.	Sharan , Pramod Chandra
6.	Batra , Jai Dev	25.	Jain , Sohan Lal (Dr.)	44.	Sharma , Kailash Chand
7.	Bhatnagar , Kameshwer Nath	26.	Joginder Singh (Dr.)	45.	Shastri , Shashikala (Mrs.)
8.	Bhattacharya , Tushar Kant	27.	Kar , Meenakshi (Dr. Mrs.)	46.	Singh , Dharam Pal (Dr.)
9.	Bhola , Om Parkash	28.	Khattar , Dharam Chand	47.	Singh , Ved Ram (Dr.)
10.	Bindal , Vishwa Nath (Dr.)	29.	Kishan Lal	48.	Srivastava , Navin Kumar
11.	Chakraborty , Tarun Kumar	30.	Kundu , Namita (Dr. Mrs.)	49.	Tagra , Om Parkash
12.	Chaudhary , Janki Nath	31.	Majumdar , Suhas Chandra (Dr.)	50.	Tanwar , Lakhansingh (Dr.)
13.	Dhawan , Jagdish Kumar	32.	Malhotra , Girdhari Lal	51.	Tewari , Shiva Gopal
14.	Dhawan , Ramesh Chandra	33.	Manrai , Santosh (Mrs.)	52.	Tripurari Lal
15.	Dhawan , Surinder Mohan (Dr.)	34.	Mehta , Hem Raj	53.	Tyagi , Tuhi Ram (Dr.)
16.	Dhawan , Urmil (Mrs.)	35.	Mohanan , Vellur (Dr.)	54.	Verma , Tribhawan
17.	Garg , Satish Chand	36.	Nath , Mohinder	55.	Virdy , Parvinder Pal Singh
18.	Goel , Ramesh Chandra	37.	Om Prakash (Dr.)	56.	Wasan , Ved Parkash
19.	Gupta , Devinder (Dr.)	38.	Pant , Kavindra	57.	Zalpuri , Kanwar Susheel (Dr.)

NOTE: Some members e.g. Mrs. Santosh Aggarwal (Sr. No. 2) and Dr. S C Majumdar (Sr. No. 31) did not sign the Attendance Sheet and there might be some other omissions in this list on this account. On the other hand, Shri Hem Raj Mehta (Sr. No. 34) and Shri Kavindra Pant (Sr. No. 38) enlisted themselves as new members of the Forum at the time of the meeting.

The Following Members had expressed either their inability to attend the meeting or else were abroad

(Names arranged alphabetically by the Surname)

1.	Agarwal , Shyam Kishore (Dr.)	2.	Agnihotry , Suhasini (Dr. Mrs.)	Abroad	
3.	Agrawal , Arun Kumar (Dr.)	4.	Bahl , Om Parkash (Dr.)		
5.	Balchandani , Mulchand Kewalram	6.	Banerjee , Parameswar (Dr.)		
7.	Batra , Virendra Kumar (Dr.)	Abroad	8.	Bhattacharyya , Raghunath (Dr.)	
9.	Chandra , Kailash (Dr.)	Abroad	10.	Chakladar , Swapan Kumar	
11.	Chaudhuri , Mihir Kumar		12.	Chhabra , Kailash Chander	
13.	Chhibber , Mohinder Kumar		14.	Chitnis , Vijay Trimbak (Dr.)	
15.	Chopra , Parvati (Mrs.)		16.	Das , Bijoy Kishore (Dr.)	
17.	Dewan Singh		18.	Gera , Subhash Chander	
19.	Ghosh , Anand Krishna		20.	Gogia , Vinod Kumar	
21.	Gupta , Akhilesh Chandra		22.	Gupta , Anil Kumar (Dr.)	
23.	Gupta , Ashok Kumar (Dr.)		24.	Gupta , Suresh Kumar (Dr.)	
25.	Halder , Sujit Kumar (Dr.)		26.	Joshi , Shri Krishna (Prof.)	
27.	Kanjilal , Alok Kumar		28.	Kasturi Lal	
29.	Khanduja , Radhey Sham		30.	Khullar , Surinder Mohan	
31.	Kishore , Ram (Dr.)	Abroad	32.	Kohli , Nand Kishore	Abroad
33.	Kothari , Prafulla Chandra (Dr.)	Abroad	34.	Kumar , Sharwan (Dr.)	Abroad
35.	Lakha Singh (Dr.)		36.	Mahajan , Kushal Kumar (Dr.)	
37.	Marwah , Raksha (Mrs.)		38.	Mathur , Sartaj Swarup (Prof.)	Abroad
39.	Menon , Thottasari Raghavan Kutty		40.	Mitra , Ved (Dr.)	
41.	Mittal , Pramod Kumar		42.	Nagpal , Kailash Chander (Dr.)	
43.	Nayar , Raj Kumar		44.	Rao , S Uma Mahehwar	
45.	Rathore , Hazara Singh	Abroad	46.	Sarkar , Ajit Kumar (Dr.)	
47.	Sarma , Kuchibhatla Subrahmanya	Abroad	48.	Seth , Roshan Lal (Dr.)	

49.	Shah, Vilaschandra Vitaldas (Dr.)	50.	Singal, Sagar Pal (Dr.)
51.	Singh, Devendra	52.	Srinivasan, Thirumalai Mappur (Dr.) Abroad
53.	Tripathi, Prabhu Shanker	54.	Tripathi, Tara Chand (Dr.)
55.	Uppal, Gian Singh (Dr.) Abroad	56.	Varma, Satya Prakash (Dr.)
57.	Vasishth, Satish Chandra	58.	Vikram Kumar (Dr.)
59.	Wadhwa, Rajinder Pal (Dr.) Abroad		

1: Welcome by the President and Introductory Remarks: Shri S C Garg, welcomed the members to the meeting. The special item on the agenda for the meeting was the invited talk by Dr. Kirti Ranjan, Associate Professor, Department of Physics & Astrophysics, University of Delhi, on “Observation of a new boson at LHC – Higgs or an Imposter”. However, there are certain other matters also which need to be brought to the notice of the General Body of the Forum or else need its approval, e.g. ratification of the Audited Statement of Accounts for the Year 2011-12 and appointment of Auditors for the year 2012-13 and beyond. Shri Kailash Chand Sharma had recently attained the age of 80 years and he will be felicitated as a New Member of the 80-Plus Fraternity of the Forum by Dr. V N Bindal, who shall also be releasing the Ninth Issue of the Forum’s Newsletter – Special Issue on Nanotechnology for the Masses”

He said that since the last Annual General Body Meeting three members of the Forum had lost their life partners. They are (i) Mrs. Santosh Wadhwa W/o Dr. R P Wadhwa who had expired on 23rd April 2012; (ii) Mrs Pushpa Mathur W/o Shri Harish Chand Mathur who had breathed her last on 30th April 2012; and (iii) Shri Varinder Marwah H/o Mrs. Raksha Marwah who left for his heavenly abode on 2nd June 2012. Condolence Resolutions on their demise had been passed at the Management Committee Meeting held on 12th July 2012

Observance of two-minute silence to pay homage to Mrs. Santosh Wadhwa, Mrs. Pushpa Mathur and Shri Varinder Marwah:
The Formal Agenda for the meeting was taken up after the members observed two-minute silence to pay their homage to the departed souls.

2: Status Report by the Secretary: The Report (**Annexure – ‘B’**), copies of which had been circulated to the members at the time of the meeting, was noted.

3. Ratification of the Audited Statement of Accounts for the Year 2011-12: The Management Committee, at its meeting held on 12th July 2012, had already adopted the Audited Report prepared by M/S Gupta Sachdeva & Co. This had been published in the Forum’s Newsletter No. 9, dated August 2012 (to be released at this meeting) on pages 63-65. The General Body ratified the Audited Report.

4. Appointment of Auditors for the year 2012-13 and beyond: At the initiative of Dr. V N Bindal, Shri Anil Gupta (Partner of M/S Gupta Sachdeva & Co) had agreed to continue to be the Auditors of our Forum for the Financial Year 2012-13 and beyond, without charging any Professional Fee. Accordingly, a letter of thanks dated 31st July 2012 had been sent to Shri Anil Gupta by the Secretary. Members of the Forum expressed their joy with the customary clapping of hands, and thanked Dr. Bindal for this very significant achievement.

5. Presentation to the Forum of his book “Panch Saw Saal Ka Safar Nama” for the Forum’s library by Dr. R C Saksena: Dr. Saksena, read out certain selected portions of the book (written in verse), before presenting it to Shri S C Garg for the Forum’s Library. A brief write-up about this book also appears on pages 55-56 of the Forum’s Newsletter to be released at this meeting.

6. Felicitation of Shri Kailash Chand (Sharma) as a New Member of the 80-Plus Fraternity of the Forum: Shri Kailash Chand (Sharma) was felicitated by Dr. V N Bindal as a new member of the 80-Plus Fraternity of the Forum by presenting to him the Citation, the 80-Plus Certificate and Forum’s Memento.

7. Release of the Special Issue of the Forum’s Newsletter on “Nanotechnology for the Masses”: After a brief introduction of the Newsletter by Shri Amitabha Basu, the Chairman of the Publication Committee, the Special Issue No. 9 of the Newsletter, dated August 2012 was released by Dr. V N Bindal.

Speaking after its release, Dr. Bindal said that this Newsletter constituted one of the major achievements of the Forum. Information of direct interest to the members on medical, finance and pension issues in particular, was being very well documented by Shri G K Arora who had been compiling and editing it since its First Issue published in 2004 and now Dr. Amitabha Basu has also come forward to share this responsibility with him. He welcomed the decision of the Management Committee to publish two issues of the Newsletter per year, for faster communication of information relevant to the members of the Forum.

He, however, felt that despite all the efforts being made to notify the meetings of the Forum through letters and e-mails, the response was not commensurate with the efforts being put in. It could be that the notification of the meetings by ordinary postal mail is not effective enough. This issue required to be looked into by the Management Committee.

8. Invited Talk by Dr. Kirti Ranjan, on “Observation of a new boson at LHC – Higgs or an Imposter”: Dr. A P Jain who had arranged for this talk, introduced Dr. Kirti Ranjan to the members of the Forum. A hand out giving an abstract of his talk and a brief profile of his, as also an excerpt “LHC Team Discovers New Elementary Particle”, published in the August 2012 Issue of “Science Reporter” (**Annexure ‘C’**) had also been circulated to the Members by the Secretary.

Dr. Kirti Ranjan gave a very impressive popular talk on this highly intricate subject, highlighting the work that had been going on under the CMS Experiment at the Large Hadron Collider (LHC), CERN, W Switzerland and the Tevatron, Fermilab, USA and answered queries that Dr. A P Jain, and Dr. S C Majumdar in particular raised.

After the talk, Shri S C Garg, expressed his thanks to Dr. Kirti Ranjan for her excellent presentation and interaction with the members, and presented to him the Forum’s Memento as a gesture of the Forum’s appreciation for accepting the invitation to give this talk.

9. Socializing over a cup of Tea: Dr. V V Shah who had completed 50 years since his association with NPL on 12th July 2012, and whose Grand son Rajesh had also got married on 24th February 2012, hosted the meeting, and offered to contribute Rs. 2,000/- for meeting the expenditure. Other contributors included Mrs. Shashikala Shastri (Rs. 1,000/-), Shri O P Bholra (Rs. 500/-), Mrs. Urmil Dhawan (Rs. 500/-), Mrs. Santosh Manrai (Rs. 500/-), Dr. S K Majumdar (Rs. 200/-), Dr. L S Tanwar (Rs. 100/-) and Shri J K Dhawan (Rs.100/-).

The meeting ended with a vote of thanks to the Chair.

DRAFT**GUIDELINES FOR NPL PENSIONERS REGARDING
STEPS NEEDED FOR TREATMENT UNDER MEDICAL EMERGENCY****(Sent to COA, NPL for views & suggestions)**

1. First try to approach Govt. or CGHS empanelled hospitals. Only in unavoidable circumstances, where CGHS recognized hospitals are either far off or there are other unavoidable reasons, the pensioner (or his family member) may get admitted to any nearest hospital.
2. As far as possible, avoid taking the patient to a small nursing home. It is better to go to a nearby hospital.
3. Inform COA/AO/ Section Officer E-I Section, NPL, at the earliest through a letter or e-mail, about the emergency and the fact that the patient has been admitted to (Name of the hospital) for emergency treatment.
4. Before discharge from the hospital, take an Emergency Certificate from the hospital, to the effect that the patient was admitted in emergency and was suffering from a particular disease, clearly indicating date and time of admission and discharge. Attach this Certificate and Discharge Summary received from the Hospital, with your reimbursement claim to NPL along with all the itemized bills.
5. The medical re-imburement claims for indoor-treatment in the hospital, may please be submitted to E-I Section NPL, **within three months** of the date of discharge from the hospital (**within one month** from the date of discharge in case of treatment taken under **medical emergency**). Please note:
 - a) Food charges are normally not reimbursable
 - b) Cost of all medicines are reimbursable in full except preparations classified as food, tonics, vitamins, disinfectants, toilet preparation etc.
 - c) Blood transfusion charges are reimbursed in full subject to certification by the treating physician that the specific blood group was not available in the Hospital and the charges of blood are comparable with the rates of Red Cross, State/ Central Govt. hospitals.
 - d) The tests for which rates are not fixed by the Ministry of Health & Family Welfare may be reimbursed in full.
 - e) Room charges are reimbursed as per C.G.H.S rules which depends on your **entitlement**
 - f) Other medical (pathological, clinical etc.) test bills are also reimbursed as per C.G.H.S rates, which could be different from those charged by the hospital.
6. **Full reimbursement of medical expenses** is also permitted in certain cases where the treatment was taken at a non-empanelled hospitals when the patient
 1. was admitted by others when the beneficiary was unconscious or severely incapacitated and was hospitalized for a prolonged period;
 2. was hospitalized for prolonged period for treatment of Head Injury, Coma, Septicemia, Multi-organ failure, etc.
 3. in higher type of accommodation as rooms as per his/ her entitlement are not available during that period;
 4. when there is a strike in Government hospitals;
 5. any other specific circumstances.

[Ref: OM No. 4-18/2005-C&P [Vol.1, Pt (1) dated 20. 09. 2009]

7. Treatment in Casualty OPD is treated as treatment under emergency.
[Ref: O M No.S.11011/ 23/ 2009-CGHS D.II/ Hospital Cell (Part I), dated 11. 04. 2011]
8. Keep a photostat copy of all papers in case they become necessary to process the medical re-imburement claim.
9. Submit your medical re-imburement claim on the prescribed form "**Med-2008 (revised w.e.f. 20. 02. 2009)**" along with the documents indicated in the **Check List**, as per the instructions for filling the Form.
10. Kindly follow the procedure as laid down below for e-payment.

e-Payment of the Medical Re-imburement Claims shall be made **directly to the Bank from where you are drawing your Pension**. You are, therefore, required to furnish the following information, [**duly endorsed by the Bank's Officer concerned**], with his **signatures and Bank's Seal** to Section Officer E-I Section, NPL:

1. Name of the Pensioner (Account Holder)
2. Name of the Bank
3. Branch Address
4. Account No.
5. IFSC Code
6. MICR Code
7. Branch Code

NOTE: The Rates charged by the hospitals are different for those Accredited by NABH and those not Accredited by NABH. The lists of CGHS Empanelled hospitals have been published in the Forum's **Newsletter No. 8 dated October 2011** under Ref **M8-18** under the following categories:

	<u>Category</u>	<u>Number Listed</u>	<u>Additions</u>	<u>Number as on 01. 07. 2012</u>
i.	General Purpose Hospitals	23	+ 5	(28)
ii.	Speciality (Selective)	32	+ 12	(44)
iii.	Superspeciality Hospitals	2	+ 5	(7)
iv	Cancer Hospitals	Nil	+ 10	(10)
v.	Eye Care Centres	21	+ 9	(30)
vi.	Dental Clinics	12	+ 3	(15)

There have been subsequent additions to the list. New additions to the hospitals (notified in the issue of the Forum's Newsletter to be released on 08. 08.2012). The number of CGHS Empanelled Hospitals as on 01. 07. 2012 in each category is indicated against each of the above categories within parenthesis.

NPL FORMER SCIENTISTS FORUM

Twenty-Eighth Meeting of the Forum on Wednesday, the 8th August 2012, at 10.30. A.M.
in the TEC Conference Room, NPL

STATUS REPORT BY THE SECRETARY

(Ref: Agenda Item 2)

A very detailed Status Report had been presented at the Annual General Body Meeting held on 2nd May 2012. This Report presents the highlights of the developments that had taken place subsequent to that meeting.

Condolence Resolutions: At the meeting of the Management Committee held on 12th July 2012. Condolence Resolutions were passed on the demise of (i) Mrs. Santosh Wadhwa W/o Dr. R P Wadhwa on 23rd April 2012; (ii) Mrs Pushpa Mathur W/o Shri Harish Chand Mathur on 30th April 2012; and (iii) Shri Varinder Marwah H/o Mrs. Raksha Marwah on 2nd June 2012.

Audited Report for the Year 2011- 12 (Ref: Agenda Item 3): As the Audited Report for the year 2011-12 could not be placed before the General Body at its meeting held on 2nd May 2012, the members had noted the Un-audited Report prepared by Shri Tripurari Lal and had authorized the Management Committee to consider the Audited Report for the Financial Year 2011-12 at its next meeting for approval on behalf of the General Body, and also to place it before the Forum at its next meeting for ratification. The Audited Report dated 2nd July 2012 was accordingly adopted by the Management Committee at its meeting held on 12th July 2012. The same has been published on pages 63-65 of the Forum's Newsletter being released by Dr. V N Bindal at this meeting. This may be ratified.

Appointment of Auditors for the Year 2012-13 and beyond (Ref: Agenda Item 4) : It would kindly be recalled that M/S Gupta Sachdeva & Co. 337, Somdatt Chamber II, 9-Bhikaji Cama Place, New Delhi – 110 066, had offered to audit the accounts of our Forum for the Financial Years 2010-11 and 2011-12 without charging any professional fees vide their letter dated 07. 12. 2010 addressed to Dr. Bindal. At the initiative of Dr. V N Bindal, Shri Anil Gupta (Partner of the Firm) has agreed to continue to be the Auditors of our Forum for the Financial Year 2012-13 and beyond without charging any professional Fee. A letter dated 31st July 2012 has been sent to him by the Secretary thanking him for remaining as Auditors of our Forum's accounts for 2012-13 and beyond.

Book by Dr. R C Saksena (Ref: Agenda Item 5): A write-up on the book to be presented by Dr. Saksena to the Forum has been published under "Post Retirement Publications by the Members of the Forum" on pages 55-56.

Felicitation of Shri Kailash Chand (Sharma) as a New Member of the 80-Plus Fraternity of the Forum (Ref: Agenda Item 6): Shri Kailash Chand (Sharma) is the 35th Member of the 80-plus Fraternity of the Forum. The text of the Citation to be presented to him by Dr. V N Bindal at this meeting appears on page 62 of the Newsletter being released by Dr. V N Bindal. The text of the citations presented earlier to **Dr. Gian Singh Uppal (in absentia)**, **Dr. Kailash Chander Nagpal** and **Shri Surinder Singh (in absentia)**, also appear in this issue of the Newsletter. Coloured photograph of Prof E S R Gopal presenting the Citations, 80-Plus Certificates and Mementoes to **Dr. V N Bindal, Shri Mohinder Nath, Shri C B L Gautam, Shri S L Gupta, Shri G L Malhotra, Shri Chattar Singh (Bharti) and Dr. P C Jain** on their induction as members of the 80-Plus Fraternity of the Forum on 18th October 2011 are also published in the Newsletter. Their citations had been published in the Newsletter No. 8. **Dr. V V Shah (in absentia)**, had also been inducted as a member of the 80-Plus Fraternity at that meeting, and his citation had also been published in Newsletter No. 8. Coloured Photograph of **Dr. Kailash Chander Nagpal** inducted as a Member of the Forum at the Forum's meeting held on 29th February 2012 also appears in this issue of the Newsletter. A complete up-to date list of the Members of the 80-Plus Fraternity of the Forum appears on page 60 of this issue. Out of the 35 members of this Fraternity, unfortunately 4 had expired. The various coloured photographs including a **Group Photograph** appear as insertions after just before the main theme of the Newsletter – "Nanotechnology for the Masses".

Invited Talk by Dr. Kirti Ranjan (Ref: Agenda Item 7): An abstract of the talk, A Brief Profile of his and a copy of "LHC Team Discovers New Elementary particle" appearing in the August 2012 issue of Science Reporter published by NISCAIR-CSIR, is given on the reverse.

Release of Special Issue of the Forum's Newsletter No. 9 – "Nanotechnology for the Masses" (Ref: Agenda Item 8): The credit for this portion of the Newsletter appearing on pages 4-34 goes entirely to **Dr. Amitabha Basu**, the Chairman of the Publication Committee and it is hoped the members of the Forum will find the articles enlightening, interesting and informative.

Membership: A special feature of this issue of the Newsletter, besides the Information documented in respect of the Medical, Financial and Pension/ Family Pension Issues, is the **Membership List** appearing on pages 66-78. The New Members added to the list after the publication of the last issue of the Newsletter in October 2011 are: (1) Dr. L S Tanwar, (2) Dr. B D Malhotra, (3) Dr. R S Dabas, (4) Dr. Hari Kishan, (5) Shri R C Anandani, (6) Shri T K Chakraborty, (7) Shri T K Bhattacharya and (8) Dr. Devinder Gupta, thereby increasing the membership number to 261, including 22 members listed on page 59 who had unfortunately expired. This includes **Dr. S K Sharma** and **Dr. V D Dandawate**, the write-ups on whom appear under "Transitions" at pages 58-59 of this issue of the Newsletter. An attempt has been made to make the membership list even more functional in addition to facilitating the timely renewal of the CGHS Cards introduced in the last issue of the Newsletter. PPO Number has also now been indicated, as the entitlement of quantum of Pension/ Family Pension has now been related with age in implementation of the recommendations of the Sixth Central Pay Commission. Indication about the PPO Numbers being operated through the State Bank of India has also been given by adding –{SBI} to the PPO Number. It will be in the interest of the members to furnish information to NPL in the two prescribed forms appearing on pages 51 and 52 of this issue of the Newsletter.

Observation of a new boson at the LHC - Higgs or an Imposter?

Dr. Kirti Ranjan

Abstract

Signaling a likely end to one of the longest, most extensive searches in the history of science, on 4th July 2012, the two major experimental teams at the Large Hadron Collider (LHC) at CERN (Switzerland), the CMS and the ATLAS, independently announced the formal discovery of a previously unknown boson of mass between 125–127 GeV/c², whose behaviour so far is consistent with Higgs boson. Further data and analysis are needed before positively identifying the new particle as being the Higgs boson. On 2nd July 2012, the two Tevatron experiments at the Fermilab, USA, the DØ and the CDF, also announced that the excesses is seen in the data around 115–140 GeV/c². The talk will focus on the recent results in the searches of the Standard Model Higgs Boson in the proton-proton collisions at the Large Hadron Collider and Tevatron. It will also highlight Indian contribution in these searches.

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Brief Profile

Kirti Ranjan is an Associate Professor in the Department of Physics of the University of Delhi (DU) since 2007. He is working on various aspects of the experimental high energy physics since 1998. He finished his graduation and post-graduation in Physics from Hansraj College, DU. He did his PhD thesis from the University of Delhi on the development of silicon sensors for the Preshower Detector of the **CMS Experiment at the Large Hadron Collider (LHC), CERN, Switzerland**. More than 1000 silicon sensors are installed in this detector, as a part of Indian contribution. He then went to work in the other high energy physics experiment, the **D0 experiment at the Tevatron, Fermilab, USA**. While working at Fermilab, he also got an Associate Scientist position there. He is the Co-Principal Investigator of the CMS project at DU. He is also Director of the Centre for Detector and Related Software Technology (CDRST) at DU. As a collaborator in the CMS and D0 experiments, he is an author in more than 350 publications. Five students are pursuing PhD with him. **One of his PhD student is finishing her work on the Higgs boson searches in the D0 experiment and two other students are involved in the Higgs boson searches in the CMS Experiment.**

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From Science Reporter (CSIR – NISCAIR), August, 2012, Page 18

Insertion of the Relevant article
