

KARNATAKA PHYSICS ASSOCIATION (R)

*Annual Report
&
Audited Statement of Accounts
2023-24*

SEPTEMBER 21, 2024

KPA

Regd. Office:

Indian Academy PU College
Campus, 9th Main Road, 10th Cross,
Hennur Cross, Bengaluru - 560 043.

Email: karnataka.physics@gmail.com

Website: karnatakaphysicsassociation.in



*Participants on 150th Talk organised by Cre'active in association
with KPA by Dr. Urbasi Sinha on Quantum Computing at
RRI Bengaluru 14.7.2024*

Karnataka Physics Association (R)

Institutional Members

1. Indian Academy Degree College

Hennur Main Road, Kalyan Nagar, Bengaluru 560 043

2. Garden City University

GCC House, #340, 5th Main, Indiranagar, Double Road,
I Stage, Bengaluru 560 038.

Honourary Members

- | | |
|---------------------------|----------------------------------|
| 1. Prof. A S Kiran Kumar | Former Chairman ISRO |
| 2. Prof. P Venkataramaiah | Former V C, Kuvempu University |
| 3. Prof. B G Mulimani | Former V C, Gulbarga University |
| 4. Prof. K Siddappa | Former V C, Bangalore University |

Founder Members

- | | |
|------------------------------|--------------------------------|
| 1. Dr. Venkatesh G | 13. Dr. Shanthala V S |
| 2. Dr. Basavaraj A Kagali | 14. Dr. Shivaram Narayan Patil |
| 3. Dr. Nagaraju P | 15. Dr. Raghavendra M K |
| 4. Prof. Raghavendran K M | 16. Prof. Achutha B S |
| 5. Dr. Nagaraja H S | 17. Prof. Sai Venkataraman T |
| 6. Dr. Srikanta B S | 18. Dr. C Nagabhushan |
| 7. Dr. Basavaraju S P | 19. Dr. M S Jogad |
| 8. Dr. Arvind Gopal Kulkarni | 20. Prof. N Mahesh |
| 9. Dr. Somasekara S | 21. Sri. Sreenath RathnaKumar |
| 10. Dr. Nataraju S K | 22. Dr. S M Khened |
| 11. Prof. Nandan M R | 23. Sri. D Ramanjinappa |
| 12. Dr. Geetha R S | |

Life Members

1. Prof. Jagadeesh V
2. Prof. Krishna H Fattepur
3. Prof. Supriya Nayak M K
4. Dr. Shivalingappa Udachan
5. Prof. Balakrishna H S
6. Sri Lakshmi Pathy R K
7. Dr. Parasuraman
8. Prof. Rama Bharathi
9. Prof. Harshitha G R
10. Mr. Krishna Murthy B S
11. Prof. Malathi K V
12. Sri Naveen K R
13. Dr. Govind A S
14. Dr. Suresh K S
15. Dr. Radha K C
16. Dr. Aswini P
17. Dr. Naveen C S
18. Prof. Sudheendra H S
19. Dr. Eshwarappa K M
20. Dr. Soumya S Bulla
21. Dr. Shashikala Yelagi
22. Dr. Gowtham G K
23. Dr. Kalasad M N
24. Dr. Yelamaggad
25. Sri Sivashankarasasthy V
26. Sri Kumar V S
27. Dr. Shivalingaswamy T
28. Dr. Thejavathi N R
29. Dr. Ananda H T
30. Dr. Raghu A
31. Dr. Roopadevi P
32. Dr. Karthik R
33. Dr. Abhiram J
34. Dr. Jagadeesha B G
35. Dr. Vasudevan K T
36. Dr. Santhosh T C M
37. Sri Suresh K
38. Sri Kiran S N
39. Dr. Kulkarni K C
40. Dr. Kokila M K
41. Dr. Ushadevi A R
42. Dr. Nagaiah N
43. Dr. Eraiah B
44. Dr. Meera B N
45. Dr. Basavaraj Angadi
46. Dr. Sarbari Bhattacharya
47. Dr. Ramakrishna Domle
48. Dr. Udayashankar
49. Sri Srinivasamurthy C S
50. Dr. Thejas R
51. Mrs. Ashwini M P
52. Prof. Chethan M
53. Ashok Dinkar
54. Shrikant Biradar
55. Sri K. Nazeer Ahmed
56. Liyakhat Alikhan
57. Sri J. Basavaraju
58. Bhojaraja M.
59. Smt. Vijayasree Mallikarjun Kande
60. Dr. K.S. Kiran
61. Dr. Vivek T.
62. Smt. Rajashri M. Shivangol
63. Barikar Prakash
64. R.P. Parvatikar
65. Dr. Balakrishnan R.
66. Dr. H.D. Ananda
67. Prof. Rudraswamy
68. Dr. R. Hanumantha Nayak
69. Sri P.H. Devaraju

- | | |
|---|--------------------------------|
| 70. Sri Bhuvanesh S.E. | 87. Suganthi S. Singh |
| 71. Sri Subhas Chandra T. | 88. Mrs. Sunita Dixit |
| 72. Sri K.R. Basavalingaiah | 89. Dr. Somashekarappa H.M. |
| 73. Dr. Darukesh B.H. | 90. Dr. Venkatesh K. |
| 74. Dr. Rajendra H.J. | 91. Srihari D. |
| 75. Dr. Savitha G. Ph.D. | 92. Dr. Vijayakumar H D |
| 76. Dr. Jagadeesh M.R. | 93. Dr. Wooday P Krishna |
| 77. Dr. G. Ranjith Kumar | 94. Dr. Ashoka R MBBS |
| 78. Dr. Sumantha H.S. | 95. Dr. S N Shobhadevi |
| 79. Sri Guru Prakash K.C. (B.E. M.B.A.) | 96. Mr. Yash Hoskere |
| 80. Sri Harisha Kumar K. | 97. Prof. P R Vishwanath |
| 81. Sri Hemachandra B. | 98. Dr. Ashwitha Nancy D'Souza |
| 82. Sri Kumar | 99. Reshma K |
| 83. Dr. Ramya Sethuram | 100. Dr. S R Thontadarya |
| 84. Sri Rajashekar S. | 101. Jalajahshi B R |
| 85. Sri Kalmesh V. Hugar | 102. Dr. V M Jali |
| 86. Navyashree C.L. | 103. Dr. Sharada Nagabhushana |

Student Members

1. Paneendra G N and 2. Amith Vikram

Bankers:

State Bank of INDIA
Name: Karnataka Physics
Association
A/c No. 40987597049
ISFC: SBIN0014933

Auditors

B.R. Prabhu & Co.,
Chartered Accountants
SHARADA No. 104, 4th Cross,
2nd Main, Gavipuram Extn.,
Bengaluru 560 019

Invitation for Online lectures

Karnataka Physics Association

Topic: Exoplanets: Distinct worlds from the Solar system

Speaker: Dr. Shashanka Gurumath Assistant Professor Dept. of Physics & Electronics School of Sciences (SOS) Jain (Deemed-to-be University)

Time: Jul 7, 2024 11:00 AM India

Join Zoom Meeting

<https://us02web.zoom.us/j/89435339566?pwd=sCOpwJJKMFMUQtQq9jHaajdCaBv6LD.1>

Meeting ID: 894 3533 9566

Passcode: 120524

Karnataka Physics Association

Online lecture Series

Topic: Fundamental Particles and Fundamental Forces

Speaker: Dr K B Vijayakumar, Prof of Physics (ret'd), Mangalore University,

Time: Dec 10, 2023 11:00 AM India

Join Zoom Meeting

<https://us02web.zoom.us/j/87925682196?pwd=eUthR2NNZ05yUmFaR0V2cWRkNmZ6QT09>

Meeting ID: 879 2568 2196

Passcode: 318804

Karnataka Physics Association

Topic: Nuclear Reactions and Search for Heavy Elements

Speaker: Dr B Rudraswamy, Professor of Physics (ret'd), Bangalore University

Time: Dec 3, 2023 11:00 AM

Join Zoom Meeting

<https://us02web.zoom.us/j/82132747068?pwd=NzNwZkF5VlVFSW1BMU9MVkNlFNXlJQT09>

Meeting ID: 821 3274 7068

Passcode: 946818

Karnataka Physics Association (Regd.)

in association with **Jnanadhara, Bangalore**

invites you to the following on-line (zoom) lecture:

Speaker: Dr A R Usha Devi,

Professor of Physics, Bangalore University, Bangalore 560056

Topic: A Tale of Quantum Computation

Time: Sunday the Nov 26, 2023 at 11:00 AM India Time

Join Zoom Meeting

<https://us02web.zoom.us/j/84004543870?pwd=L1Q1VmNvMEEzb0p6OWRLdIZSNGNsdz09>

Meeting ID: 840 0454 3870

Passcode: 073213

Karnataka Physics Association (KPA)

KPA invites you to a lecture on "Recent Advances in Nanoscience and Nanotechnology" by Dr Basavaraj Angadi, Professor of Physics, Bangalore University

Time: Nov 5, 2023 11:00 AM India

Join Zoom Meeting

<https://us02web.zoom.us/j/85338809608?pwd=bWxta1dwcjFuUkhmWmw5ZnBuWHczZz09>

Meeting ID: 853 3880 9608

Passcode: 824002

Jnanadhara is inviting you to a scheduled Zoom meeting.

Topic: What Hydrogen Atoms Tell Us about the Evolution of the Universe (part I)

Speaker: Prof. N Udayashankar

Former Professor, Raman Research Institute (RRI), Bengaluru

Time: Oct 15, 2023 11:00 AM Mumbai, Kolkata, New Delhi

Join Zoom Meeting

<https://us02web.zoom.us/j/86481635151?pwd=RE9kSDNiYWJkS2pia3lVOFRLWmVwUT09>

Meeting ID: 864 8163 5151

Passcode: 911515

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PART - I
ANNUAL REPORT
2023-24

Chapter 1 : EC meetings

I. Proceedings of the EC Meeting held on 26th August 2023 at 11.30 AM in the National College, Basavanagudi, Bengaluru

This meeting was held before the Annual General Body meeting. In the meeting, the following items of were discussed:

1. **Welcome by President:** The meeting started with welcome by president of KPA.
2. **To consider and adopt the report from February 2022 to August 31, 2023:** The General secretary of KPA presented a draft report from Feb 2022 to August 2023 to consider and adoption of the same. EC accepted the draft report.
3. **To consider and adopt the accounts statement from Feb 2022 to March 31, 2023:** The treasurer presented the account statement to consider and adoption of the same from Feb 2022 to March 31, 2023. It was accepted by EC.
4. **Future activities for the year 2023 -24:** Prof. G Venkatesh and Prof. B A Kagali have taken the responsibility of identifying the persons for the posts of **Vice presidents and joint secretaries for the 7 divisions**. The announcement of VP and JS for 7 divisions is to be made at the AGM.
5. **Date for Annual General Body meeting:** It was resolved to convene AGM on September 10, 2023 at 11.30 AM in the National College, Basavanagudi, Bengaluru.
6. **Election/nomination for office bearers and EC members for the next term:** Nominations can be made in the General Body meeting.

7. **Any other matter with the permission of the chair:** It was resolved to send a communication to KPA members (including founder members) to send a stamp size photo for ID Card.

II. Proceedings of the EC Meeting held on 9th December 2023 at 2.30 PM in the National College Basavanagudi, Bengaluru

AGENDA: Selection of President

The EC meeting was held on 9th December 2023 at 2.30 PM in the National college, Basavanagudi, Bengaluru. Extract of the Resolution in this meeting is as follows:

“In view of the sad and unexpected demise of Dr. G Venkatesh, the president of the Association on 8th November 2023, the EC unanimously resolved to appoint Dr. B A Kagali, the present Vice - president as interim president of the Association until the election/selection of the new office bearers as per the by -laws of the Association.

Further, it was resolved to submit this resolution to the Bank as well as the Registrar of Co -Operative Society, Malleswaram, Bengaluru.

III. Proceedings of the EC meeting held on Saturday 20th January 2024, 2.30 PM at the National College, Jayanagar, Bengaluru.

The secretary welcomed all the members to the meeting and requested the president Prof. B A Kagali to preside over the meeting.

1. **Welcome by President:** The president also welcomed all the members and noted that that there was sufficient quorum to proceed with the meeting.

One-minute silence was observed to pay respects to the past president of the Association Dr. G Venkatesh.

2. **Activities conducted so far** – report by General Secretary: The general secretary briefed the EC members about the activities and transactions of the Association since the last meeting. He also mentioned about the workshops, experimental demonstrations. Further, he said that KPA is conducting the Lecture series in online Zoom Platform with the help of Jnanadhara (supported by Dr. M K Raghavendra). So far 10 lectures have been held. The entire responsibility of the lecture series has been taken by Dr. B A Kagali.
3. **Selection of Vice President:** As per the third item of the agenda, Prof. B S Srikanta was appointed the vice-president of the Association, unanimously.
4. **Acceptance of Donations:** As per the fourth item of the agenda the EC resolved to convene a special General Body meeting in February to make an amendment to the by-laws so as to permit the Association to accept / receive donations / grants from private and government institutions and others in the interest of carrying out the aims and objectives of the Association.
5. **Future course of action:**
 - a) It was resolved to conduct workshops for teachers on topics of their choice and arrange conferences/seminars for students. Dr. B S Srikanta, Dr. Somasekara S and Dr. S P Basavaraju have been entrusted with the task of preparing detailed proposals.
 - b) It was resolved to conduct a workshop on AI and its application in Physics teaching and learning for students, teachers and administrators. Dr. A G Kulakarni has been entrusted with the task of preparing a detailed plan of action in this regard.

- c) It was resolved to entrust Dr. Geetha R S the task of arranging a workshop on innovative experiments that include the principles of physics, chemistry and biology for high schools.
 - d) It was resolved to reprint KPA Brochures, membership certificates as soon as possible.
 - e) It was resolved to request all KPA members to involve themselves in enrolling more members and actively participating in all the activities of KPA.
 - f) Dr. Srikanta agreed to visit Mysore for enrolling more members. He has agreed to tour Bengaluru Urban and Bengaluru Rural divisions to enrol more members as soon as possible.
 - g) Dr. Somashekara S agreed to visit Kalyana Karantaka division to enrol more members for the Association and explore the possibility of conducting various activities there.
6. a) It was resolved to convene a special General Body Meeting preferably in third/fourth week of February 2024.
- b) It was decided to put forth and seek the approval from SGBM that the notification of the meetings of EC / AGM / SGB may be sent through E mail/ WhatsApp instead of sending by post.
7. It was resolved to work out arrangement to issue Identity cards to KPA members as soon as possible.

The meeting concluded with a vote of thanks proposed by the Secretary to all the members and to National College, Jayanagar for permission given to host the meeting.

IV. Proceedings of the EC Meeting held on 27.07.2024 at 11.30 AM

The EC meeting was held on Saturday 27th July 2024 at 11.30 AM in the PG Department of Physics, Jayanagar, Bengaluru. To start with the General Secretary invited all of them and then requested the President of the Association to chair the session.

1. **Welcome by President:** The President, Prof. B A Kagali welcomed the members and initiated the discussion. In an open remark he said that we should discuss matters as per the agenda. He read the agenda to be discussed and asked the Secretary to present the report of the previous EC meeting held on 20.01.2024.
2. **To present the proceedings of 3rd EC Meeting held on 20.01.2024 by the General Secretary:** The General Secretary read the proceedings of 3rd EC Meeting. Dr. B S Srikanta suggested that instead of “To present the proceedings of the previous meeting”, it should be “To read and confirm the minutes of the EC meeting”. It was accepted to correct it in the next meeting.
3. **To consider and approve the action taken about the resolutions made in the previous meeting:** In the 3rd EC meeting, it was resolved to call for a special general body meeting. As per the resolution a special general body meeting was held on 24.02.2024 at 2.00 PM in the National College, Jayanagar, Bengaluru. In that meeting, an amendment to the byelaw was made to accept Donations /Grants/Endowments from individuals/Institutions/Govt. agencies. The letter containing this amendment was submitted to the Registrar of Co - operative societies, Malleswaram, Bengaluru. But, there are some documents such as certificates and ID Cards have to be prepared. Prof. K M Raghavendran said he would find out some sponsor to get them printed.

4. **To consider and approve the expenses till date by the Treasurer and General Secretary:** The report of the treasurer was approved by EC members.
5. **To propose future activities:** Essay competitions, Quizzes for High Schools and /or PU students were proposed. Prof. Nandan accepted to sponsor the prizes / prize amounts. Prof. S K Nataraju agreed to host lunch for the Teacher's workshop. Prof. S Somasekara accepted the responsibility of arranging the workshops at Devanahalli. Prof. B S Srikanta agreed to find out the sponsor such as Seshadripuram Education Society for sponsoring some events.
6. **Office bearers and EC members for the next term:** It was resolved that the current office bearers and EC members should identify the office bearers and EC Members for the next term.
7. **Date for the Annual General body meeting:** It was resolved to hold the General Body meeting in the 2nd or 3rd week of September and the next EC meeting around August 15th.
8. **Any other matter with the permission of the Chair:** It was resolved that, Sri. K R Prabhu, Hanumanthanagar, Bengaluru be appointed as the KPA Auditor for the financial year 2023 -24.

V. Proceedings of the EC Meeting held on Thursday 22nd August 2024

The adjourned EC meeting on the day was held at 3.00 PM as only 6 members were present.

1. General Secretary requested the president Dr. B A Kagali to Chair the session. He accepted it and welcomed the members and briefed about the meeting.
2. General Secretary read the minutes of the previous EC meeting held on 27.07.2024 and got it confirmed by the members.
3. The action taken on the resolutions of the previous meeting held on 27.07.2024 are the following:
 - a) ID Cards to the KPA members being explored. With respect to this, Prof. K M Raghavendran agreed to sponsor the same and therefore a request is to be sent to all the members by email to receive their passport size photo, Name and Address, Phone number and email in word format or in Google form.
 - b) Quiz for High School/PU students to be conducted after discussion with Schools HM / Principal.
 - c) Prof. B A Kagali's suggestion of having an independent KPA zoom license is deferred.
 - d) AI workshop in offline mode is also deferred.
4. The draft of the Annual Report of 2023- 2024 was read by General Secretary. It was confirmed and a suggestion was given by the EC members that the members to be informed by the Secretary through email to receive their Academic activities within August 27, 2024 so that their activities can be included in the Annual Report.

5. To consider and adopt the Audited statement – The treasurer Prof. K M Raghavendran presented the draft Audit report from 01.04.2023 to 31.03.2024. Members approved the same. He also mentioned that some amount could be deposited under FD so that the accrued interest can be utilized for our academic activities. Members suggested that Rs 1,00000/- (Rs one lakh only) could be deposited under FD.
6. Election/nomination for the next office bearers and EC members, the following members are recommended as Vice Presidents:

| | |
|-------------------------|---------------------|
| ❖ Dr. Jagadeesh S | Davanagere Division |
| ❖ Dr. T Shivalingaswamy | Mysore Division |
| ❖ Dr. Sreenath K R | Bengaluru Urban |
| ❖ Dr. M S Jogad | Kalaburagi |

7. It was resolved to conduct Annual General Body meeting on Saturday, 21st September 2024 at 2.30 PM in the National College, Jayanagar, Bengaluru.
8. Under any other matter, the EC unanimously appreciated the efforts of Mrs Muktha B. Kagali for helping KPA in bringing out the NEWS letter in an attractive manner. Further, the EC has also appreciated the efforts of the Chief Editor and the Editors for the meticulous work in bringing out the KPA Newsletter on time.

Finally, General Secretary thanked all the members and the NES Management for helping us use their premises for conducting meetings.

Proceedings of the Annual General Body Meeting held on Sunday 10th September 2023 at 11 AM

1. **Welcome by President:** The president of KPA Dr. G Venkatesh welcomed the gathering. He then thanked the Secretary for preparing the report and the Treasurer for the nicely printed version of the Annual Report. He also expressed sorry for those whose salutations were missing.
2. **To consider and adopt the report from Feb 2022 to Aug 2023:** The General Secretary of KPA presented a report of the activities of the Association from February 2022 to August 2023 for consideration and adoption. The GB accepted the report. The highlights of the events in the report are:

(i) Inauguration of KPA (ii) Launching of KPA website (iii) National Science day celebrations (iv) International day of light (v) Workshop for High school and PU College Teachers at the MS Ramaiah Pre University College, Bengaluru.

Prof. Venkatesh expressed opinion that KPA can collaborate with CreActive Association for online or offline lecture series. Prof. H S Nagaraja, Chief Mentor of Prayoga expressed his feeling that Prayoga would become an Institutional member of KPA.

3. **To consider and adopt the Accounts statement from Feb 2022 to March 31, 2023:** The treasurer presented the statement of accounts from Feb 2022 to March 31, 2023. The GB accepted it and it was recommended by members to open a Flexi current account, which would help to get online operating facility. KPA may accept donations from well-wishers and philanthropists. It can aim for obtaining 80 G tax exemption status after 3 years.

4. **Proposed future activities for the year 2023 – 24:** Members opined that the Experimental demo for High School and PU students could be continued.
5. **Election/Nomination of new Office bearers and EC Members for the next term:** President said that a committee can be constituted to conduct elections at a later date - but for this year, the existing office bearers and the EC members can be continued for the next term, since the Association is in its initial stage. The General body unanimously accepted this proposal.
6. **Any other matter with the permission of the Chair:** The President said that, if anybody wishes to give Rs 5000/- he /she can be considered as premier member, but this proposal was inconclusive as we do not have such a category of membership.

Finally, treasurer thanked the members for the participation and fruitful discussion and also the NES management for having provided the Auditorium and other infrastructure.

Proceedings of the Special General Body meeting held on Saturday 24th February 2024 at 2.30 PM in the National College, Jayanagar

A special General Body meeting was held at 3 pm on 24th February in the PG Department of Physics, The National College (Autonomous), Jayanagar, Bengaluru.

Having sufficient quorum, the general secretary, after saluting the members, requested the president to preside over the meeting.

1. **Welcome by President:** The president welcomed the members and informed the members about the need for the special general body meeting.
2. **To consider and adopt a report of the activities of the association from 10th September 2023 to Feb 23rd, 2024:** The General secretary briefed the special General Body about the activities such as the workshops, experimental demos and talks conducted/delivered by the KPA members, namely, Prof B A Kagali, Prof. Somasekara S, Prof. S P Basavaraju, Prof. B S Srikanta, Prof. P Nagaraju, Prof. R S Geetha and others from September 10, 2023 to Feb 23, 2024. He also informed the members about the communications done with the State Bank of India, Hennur branch and with Registrar of Co-operative Societies that had to be done in view of the sudden demise of the Founder president Prof. G Venkatesh. A mention was also made with respect to condolence meeting held on November 22nd 2023.

General Secretary specially mentioned about the online lecture series on Sundays with the help of Jnanadhara, wherein, Dr. M K Raghavendra is sharing the zoom platform. On some occasions CreActive (of Sreenath Rathnakumar and his team) has also shared the zoom platform. So far, 13 online lectures from various speakers on different topics have been held. One special lecture by Mr.

Asitang Mishra of National Aerospace Administration (NASA) of USA was held on Artificial Intelligence. Further, the Secretary said that the KPA is bringing out KPA Newsletter quarterly. Already, two issues have been released, one in the month of November and another in the month of February. The Secretary, thanked the editors and the chief editor, Prof. B A Kagali. These Newsletters are being formatted and designed by Smt. Muktha B. Kagali, free of charge, and therefore, KPA is thankful for her services.

3. **To consider and approve the following Amendment to the Memorandum of Association of KPA: KPA may accept Donations / Grants / Endowment from individuals / Institutions / Govt agencies for achieving the aims and objectives of the Association.**

The focus of the meeting was mainly on this issue. Every one accepted this in view of accepting Donations/Grants/Endowments would help conduct the activities of the Association. All members expressed their positive views on this agenda. The proposed amendment to the byelaws is unanimously approved. Finally, it was resolved that KPA be authorized to accept Donations / Grants / Endowments from individuals / institutions / Govt. agencies for achieving the aims and objectives of the Association.

4. **To consider and approve the Notification of the meetings of EC/AGBM /SGBM through Email/WhatsApp instead of sending the same by post.**

There was no objection from any one with respect to this agenda. Everybody felt that, since now a days all of us are using Email / WhatsApp and hence there is no need of hard copy. Indeed, this has already been included in the byelaw. But still it was included in the agenda to bring it to the notice of the members.

5. **Proposed activities of the association till Sept 2024:** Sreenath Rathna Kumar suggested that Physics/Science summer camps for High School/PU students may be arranged so that, they would be exposed to new ideas and they could also meet some distinguished scientists. He also suggested writing of books by KPA members. Further, he suggested that, we may have to arrange career counselling/ pathfinding guides for M.Sc. students so that they may choose their jobs after their post-graduation. Prof. Ramakrishna Damle suggested that, we may arrange visits for students to labs in institutions such as IISc., IIA, RRI etc. Such visits would inspire students to take up science as their career.

6. **In any other matter with the permission of the Chair:**

Under any other matter, the following announcement/ resolutions were made:

- a) The President announced that Dr. B S Srikanta, former Director, Sindhi College, Bengaluru has been selected as Vice-president in the EC meeting held on Jan 17, 2024 and requested the general Body to ratify the decision. The General Body unanimously accepted the EC decision.
- b) Prof. Ramakrishna Damle proposed that KPA might introduce Donor membership for those paying Rs 10,000/- (Rupees ten thousand only).
- c) Prof. K M Raghavendran – the treasurer of the Association, requested the members to approve the creation of Corpus fund in the form of FD from a portion of the amount collected as membership fees. Prof. S K Nataraju supported the proposal and Prof. S P Basavaraju seconded it. The general body accepted this proposal unanimously.

- d) Some members were of the opinion that many are not joining online lecture series and hence questioned the need for continuing the online lecture series. But most members suggested that we have to continue the Online lecture series so that it could be useful/beneficial at least for a few interested students and teachers.
- e) Prof. Rudraswamy asked, whether the lectures can be delivered in Kannada. The president suggested the bilingual language would be helpful for both the teachers and students and is also recommended by NEP 2020.

The meeting concluded with vote of thanks by the general secretary to the members and the National Education Society and the Principal of the National College, Jayanagar.

Chapter 2 : Activities of KPA members

1. Dr. Sharada Nagabhushana, published a Book titled “Vaividya Jagatthinalli Aralida Vgnana – thantrajana”, Published by New Wave Books, in 2023.
2. Dr. P Nagaraju delivered a talk on the “Science of Climate change” at SS Jain Subhodh P G College, Jaipur on Oct 11, 2023.
3. Dr. B A Kagali and Dr. P Nagaraju demonstrated a few experiments to the students of Govt P U College, T Dasarahalli, Bengaluru on November 18,2023 (10 AM to 1 PM).
4. Dr. B A Kagali and Dr. P Nagaraju demonstrated a few experiments to the students of 10th Standard, Ganga International School, Nagasandra, Bengaluru on November 18, 2023 (2. PM to 4.30 PM).
5. Dr. B A Kagali and Dr. P Nagaraju demonstrated a few experiments to the students of Basaveshwara P U College, Vijayanagar, Bengaluru on December 01, 2023.
6. Dr. B A Kagali and Dr. S Somasekara were the guests at the J B R Degree College, Hoovina Hadagali for special lecture series on December 6, 2023.
7. Dr. B A Kagali and Dr. S Somasekara were the resource persons for interaction with High School students for Physics topics at Govt High School, Kunigal, Tumkur District on December 19, 2023, the event being organized by Agastya International Federation.
8. Dr. P Nagaraju gave a talk on Expecting the Unknown (Experiment at CERN) to the B.Sc., Students of Kuvempu Maha Vidyalaya Kengal, Channapattana on December 20, 2023.

9. Dr. S P Basavaraju delivered a talk on “The fascinating story of how Quantum Mechanics was formulated” to the B.Sc., students of Govt Women’s College, Chintamani on December 12, 2023.
10. Dr. S P Basavaraju delivered a talk on “The fascinating story of how Quantum Mechanics was formulated” to the P U students of Manasa PU College, Besarahalli, Maddur Taluk on December 19, 2023.
11. Dr. S P Basavaraju and Dr. S Somasekara were the resource persons for the Interaction with High school students for Physics topics - Sathagiri School, Halagur, Malavalli Taluk on Jan 09, 2024 - organized by Agastya International Foundation.
12. Dr. S P Basavaraju and Dr. S Somasekara were the resource persons for the Interaction session with High school teachers for Physics topics on Jan 09, 2024 organized by Lions club, Halagur, Malavalli Taluk and Agastya International Federation on Jan 09, 2024.
13. Dr. S Somasekara, Dr. S P Basavaraju and Dr. P Nagaraju were the resource persons for interaction with 10th Standard students of Govt, High school Nelamangala, on Jan 10, 2024 organized by Agastya International Foundation.
14. Dr. B S Srikanta delivered a talk on “Newton, Gravitation and Optics” in online Zoom platform organized by Cre Active on December 2, 2023.
15. Dr. B S Srikanta delivered a talk on “Intellectual property Right – An insight” at Government Degree College, Malleswaram to the staff and students on Jan 02, 2024.
16. Sri H D Ananda, Delivered talk on the courses, competitive examinations, career opportunities and prerequisites at Hasan Public School on 09 Feb 2024.

17. Sri H D Ananda, Delivered a talk on Birth of the Universe and Introduction to heavenly bodies at Netaji Public School, Hasan on 20 Feb 2024.
18. Sri HD Ananda, Delivered a talk for B.Sc., Students on Master Control facility and its activities, Hasan 21 Feb 2024.
19. Sri H D Anand, Inaugurated Science Exhibition and interacted with Students at Vidya Soudha School Vijayanagar, Hasan on 24 Feb 2024.
20. Sri H D Ananda delivered an invited talk at Shiksha International School, Mahalakshmi Layout, Bengaluru.
21. Sri H D Ananda delivered an invited talk at Vidya Soudha School Vijayanagar, Hasan on March 07, 2024.
22. Sri H D Ananda, spoke about C Programming, the talk being organized by Karnataka State Council for Science and Technology (KSCST) at Taralabalu Jagdguru Composite (High School) Pre-University College, Anubhavamantapa, Davanagere on 23 Aug 2024.
23. Dr. Basavaraju, delivered a talk on How the Physicists developed LASER at Indian Academy Degree College, B'lore on 16-05-2024.
24. Dr. Basavaraju, given talk on "How the Physicists developed Laser, the story from Einstein to Maiman" at Cambridge Inst. of Technology, B'lore on 08-06-2024.
25. Dr. S P Basavaraju, gave a talk on The story of Sir C V Raman & how he won the Nobel Prize at Nisarga PU College, B'lore on 24-08-2024.

26. Dr. S P Basavaraju, gave a talk on The story of Sir C V Raman & how he won the Nobel Prize at T. Bettahalli, Talakad on 05-09-2024.
27. Sri H D Ananda, gave a talk on Evolution of Indian Space programme, key milestones and achievements, contribution to global space initiatives at Shiksha International academy on 03.09.2024

Chapter 3 : KPA News Letter Publication

Newsletter being Published quarterly. So far 4 issues have been released.

1. First issue is in the month of November. Released on 01.11.2023
2. Second issue is in the month of February. Released on 01.02.2024
3. Third issue is in the month of May. Released on 01.05.2024
4. Fourth Issue is in the month of August. Released on 01.08.2024

Online Lecture Series on Zoom Platform on Sundays at 11 AM. It is supported by Dr. M K Raghavendra (Jnanadhara). It was started during October 2023. So far 37 lectures have been organized. The list is as follows:

| Sl. No. | Date | Speaker | Affiliation | Title of the talk |
|---------|------------|----------------------|--|--|
| 1 | 15.10.2023 | Prof. Udaya Shankar | Scientist, Raman Research Institute | What Hydrogen Atoms Tell us about the Evolution of the Universe?" (Part – I) |
| 2 | 29.10.2023 | Prof. Udaya Shankar | Scientist, Raman Research Institute | What Hydrogen Atoms Tell us about the Evolution of the Universe?" (Part – II) |
| 3 | 05.11.2023 | Dr. Basavaraj Angadi | Professor of Physics Bangalore University | Recent Advances in Nano Science Nano Technology |

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|----|------------|-------------------------|---|--|
| 4 | 26.11.2023 | Prof. Ushadevi A R | Professor of Bangalore University | A Tale of Quantum Computation |
| 5 | 03.12.2023 | Prof. Rudraswamy B | Former Professor of Physics Bangalore University | Nuclear Reactions and Search for heavy elements |
| 6 | 10.12.2023 | Prof. Vijaya Kumar K B | Mangalore University | Fundamental Particles and fundamental forces |
| 7 | 24.12.2023 | Prof. B A Kagali | Banglore University-Jnana Bharathi | Variational Principles in Physics |
| 8 | 07.01.2024 | Dr. Sreenath K R | Scientist ISRO | Space Travel- an Eye view (in Kannada) |
| 9 | 14.01.2024 | Prof. Eraiah B | Professor of Physics, Bangalore University-Jnana Bharathi | Recent advances in Glass Science and Technology |
| 10 | 19.01.2024 | Asitang Mishra | Scientist, NASA | Introduction to Foundation Models and Problem Solving using DATA Science |
| 11 | 28.01.2024 | Prof. Sai Venkata Raman | Air Force High School, Bengaluru | Role of teachers in implementing Scientific temper in High School Students |

| | | | | |
|----|------------|------------------------|--|---|
| 12 | 04.02.2024 | Dr. B Manikiam | Former Scientist, ISRO | Space Applications for Society |
| 13 | 11.02.2024 | Dr. Joseph Ivin Thomas | Doctoral scholar, Molecular Cell Biology Dept, University College London, UK | The standard model of Wave interference – a slight detour along a 200-year-old road |
| 14 | 25.02.2024 | Dr. P Nagaraju | Professor of Physics, National College, Jayanagar Bengaluru | Expecting the Unknown- the physics of ATLAS experiment of CERN |
| 15 | 27.02.2024 | Sri V S SShastry | Mathematics Communicator | Various dimensions of C V Raman (in Kannada) |
| 16 | 10.03.2024 | Mr.Yash Hoskere | Soft wear Engineer | Deep Learning- AI |
| 17 | 17.03.2024 | Dr. B N Meera | Professor of Physics, Bangalore University | Physics Education Research – What, why and how? |
| 18 | 31.03.2024 | Sri H D Ananda | Group Director, SPROC systems, Hassan | Quantum Computing |
| 19 | 07.04.2024 | Dr. M S Jogad | Former Professor of Physics, Kalaburagi | The beauty of Glass Science and Technology- My experiences in Glass Research |

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|----|------------|------------------------------|---|---|
| 20 | 14.04.2024 | Dr. T Shivalingaswamy | Professor of Physics, Maharani's College, Mysore | Gravitational Waves (in Kannada) |
| 21 | 21.04.2024 | Dr. Ramakrishna Damle | Former Professor of Physics, Bangalore University | Climate Change – Problems and Challenges |
| 22 | 28.04.2024 | Sri H D Ananda | Group Director, SPROC systems, Hassan | Atomic Clocks – types, principles and applications |
| 23 | 05.05.2024 | Dr. S Krishnaveni | Prof. & Chairperson DoS in Physics University of Mysore | Elementary Particles |
| 24 | 12.05.2024 | Dr. Vijaya Kumar H Doddamani | Professor of Physics, Bangalore University | Introduction to the Realm of normal and active Galaxies |
| 25 | 19.05.2024 | Dr. A Raghu A | Professor of Physics Mandya University | Basis of optical tweezer |
| 26 | 26.05.2024 | Dr. R S Geetha | Coordinator NCIEP Associate Professor (Rtd.) Vijaya College | A Journey through competitive experiments |

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|----|------------|-----------------------|---|---|
| 27 | 02.06.2024 | Dr. G Umesh | Professor of Physics (Rtd.) NIT, Surathkal | Fascinating world of Ultra short LASER Pulse |
| 28 | 16.06.2024 | Dr. Nagaraja Kamsale | Department of Physics, Bangalore University | 225 million km away Celestial body's Atmosphere |
| 29 | 23.06.2024 | Dr. B C Prabhakar | Professor of Geology (Rtd.) Bangalore University | The intricate world of Environment and Climate change |
| 30 | 30.06.2024 | Dr. B A Kagali | Professor of Physics (Rtd.) Bangalore University | Life and work of S Chandasekhar |
| 31 | 07.07.2024 | Dr. Shashank Gurumath | Asst Professor Jain Deemed to be University | The world of exoplanets |
| 32 | 21.07.2024 | Dr. T Shivalingaswamy | Professor of Physics, Maharani's College, Mysore | James Webb Space Telescope (in Kannada) |
| 33 | 28.07.2024 | Dr. Chethan M | Asst Professor Jain Deemed to be University | Glasses: light sensitive to life-saving |
| 34 | 04.08.2024 | Dr. S Abdul Khader | Asst Professor of Physics, Maharani's College, Mysore | Composite materials |

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|----|------------|----------------------|---|--|
| 35 | 11.08.2024 | Sri Suresh T S | Chief Experience officer, Agastya International | Activities of Agastya |
| 36 | 18.08.2024 | Dr. P Venkataramaiah | Professor of Physics (Rtd.) Mysore University Former V C Kuvempu University | Opportunities and challenges of Higher Education kindle High School Students |
| 37 | 01.09.2024 | Dr. Deepak Dhar | INSA, Distinguished Professor, ICTS, Bengaluru | The curious relationship between Mathematics and Physics |

PART – II
AUDITED STATEMENT OF ACCOUNT
2023-24



B. R. PRABHU & Co.,
Chartered Accountants

"SHARADA" No. 104,
4th Cross, 2nd Main,
Gavipuram Extn.,
Bangalore - 560 019
☎ : 080-22424207
Mob. : 9243410740
E-mail : brprabhu_ca@yahoo.co.in

AUDIT REPORT

To
The Members of
Karnataka Physics Association, Bengaluru

We have examined the attached Financial statements of Karnataka Physics Association (referred to hereinafter as "The Association"), which comprise of the Balance sheet as at 31 March 2024, the Income and Expenditure Account for the year 2023-24 which are in agreement with the books of account maintained by the Association.

Preparation of these financial statements is the responsibility of the management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit as per auditing standards generally accepted to obtain reasonable assurance about whether financial statements are free of material misstatement.

We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purposes of the audit. In our opinion, proper books of account have been kept by the Association.

In our opinion and to the best of our information and according to the explanations given to us, the aforesaid financial statements give a true and fair view in conformity with the accounting principles generally accepted in India.

- (i) In the case of the Balance sheet of state of affairs of the Association as at 31st March 2024 and
- (ii) In the case of the Income and Expenditure Account of the deficit of Income over expenditure for the second period ending on that date.

For **M/s. B. R. Prabhu & Co.,**
Chartered Accountants
Firm Registration Number: 009769S

B. R. Prabhu
CA. B. R. Prabhu
Proprietor
M No 024890
UDIN 24024890BKFRFC6749



Place: Bangalore
Date: 25.08.2024

| Liabilities | Amount Rs | Assets | Amount Rs |
|---|-----------------|-----------------------------------|-----------------|
| | | | |
| Funds | | | |
| A Corpus Fund | | | |
| Founding Members' Contribution | 1,10,000 | Cash and bank balance | |
| | | Cash on hand | |
| | | Balance in SBI | 1,16,471 |
| B Membership Funds | | | |
| Institutional Membership Fees (Opening balance) | 44,000 | Excess of Expenditure over Income | |
| Life Membership Fees (Opening balance) | 51,000 | Op balance | 89,877 |
| Addition during the year | | Addition during the year | 20,624 |
| Amount payable to Secretary | 1,972 | | |
| Total | 2,26,972 | Total | 2,26,972 |

Notes and Accounting Policies forming part of accounts

1. The Accounts are prepared under historic cost convention and evaluated on a going concern basis with revenue recognised and expenses accounted generally on cash basis.
2. The financial statements have been prepared in conformity with generally accepted accounting principles
3. Karnataka Physics Association is registered as society on 24.03.2022 with the main objective of promoting of physics education at different levels among other objects for the benefits of scientific community students and general public.

For Karnataka Physics Association

For M/s. B. R. Prabhu & Co.,

Chartered Accountants

Firm Registration Number: 009769S

BASAVARAJ ADAGALI

NAGARAJU P. S.
General Secretary
Place: Bangalore
Date: 25.08.2024

RAGHAVENDRAN K M
Treasurer

CA. B. R. Prabhu
Proprietor
M No 024890
UDIN 24024890BKFRCEF6749





Karnataka Physics Association
Indian Academy PU college Campus, 9th Main Road, Hennur Cross, Saranac Nagar, Bangalore 560043

Income & Expenditure Account for the year 2023-24

| Expenditure | Amount | Income | Amount |
|-----------------------------------|--------|-----------------------------------|--------|
| To | Rs | | Rs |
| Bank Charges | 1,003 | | |
| Meeting expenses (By G Venkatesh) | 7,772 | | |
| Printing /Xerox expenses | 6,600 | By | |
| Meeting expenses | 5,249 | Excess of Expenditure over Income | 20,624 |
| Total Rs | 20,624 | Total Rs | 20,624 |

For Karnataka Physics Association


BASAVARAJ A KAGALI
President


NAGARAJU P
General Secretary

For **M/s. B. R. Prabhu & Co.,**
Chartered Accountants
Firm Registration Number: 009769S



CA. B. R. Prabhu
Proprietor
M No 024890
UDIN 24024890BKFRFCF6749




RAGHAVENDRAN K M
Treasurer

Place: Bangalore
Date: 25.08.2024

Receipt & Payment account Expenditure Account for the year 2023-24

| | Receipt | Amount Rs | Amount Rs | Payment | Amount Rs |
|----|--------------------------------|---------------|--------------|-----------------------------------|--------------|
| To | Opening Balance | | | Bank Charges | 1,003 |
| | Cash | 3877 | | Meeting expenses (By G Venkatesh) | 7,772 |
| | Bank balance | <u>80246</u> | 84123 | Printing /Xerox expenses | 6,600 |
| To | Life Membership Fees | <u>51,000</u> | | Meeting expenses | 5,249 |
| " | Amount received from Secretary | <u>1,972</u> | 51,000 | Closing Cash and bank balance | |
| | | | 1,972 | Cash on hand | |
| | | | | Balance in SBI | |
| | Total Rs | | 1,37,095 | Total Rs | 1,37,095 |



K. Nagarajwade
(K.M. RAGHAVENDRAN)
(TREASURER)

P. Nagaraju
(P. Nagaraju)
General Secretary



Interaction program arranged by Agastya International foundation in association with KPA during November 2023 at Nelamangala for 10th std. students



Interaction program at Huliurdurga, for 10th std. students on 29th December 2023



Homage to our Founder President Dr. G Venkatesh