

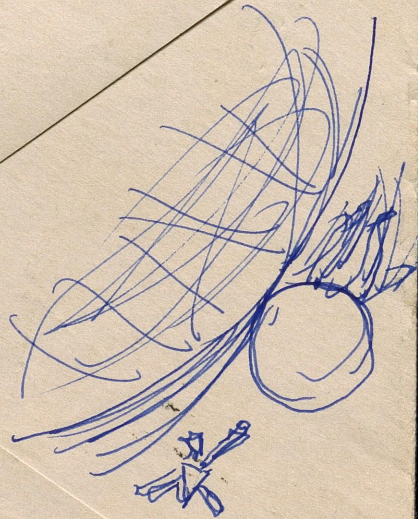
BOOK-POST



Dr. B.S. Madhava Rao
No. 4, Kankanhalli Road
Basavangudi P.O.
Bangalore 4

DEPARTMENT OF APPLIED MATHEMATICS
INDIAN INSTITUTE OF SCIENCE
BANGALORE-12

SHANNON
15. 1. 72
11 5/11
DEL.
NSALORE



*The Indian Institute of Science
Bangalore*

*takes pleasure in inviting you
to the inauguration of
a seminar on*

Unsolved Problems in Physics

*Monday, July 17, 1972, 9-30 a.m.
at the Faculty Hall, Main Building*

PROGRAMME

Welcome Dr. S. DHAWAN

Inauguration Dr. E. C. G. SUDARSHAN

Vote of Thanks Dr. K. P. SINHA

Coffee

DR. B. S. Madhava Rao

THE DIRECTOR, INDIAN INSTITUTE OF SCIENCE

requests the pleasure of your company

To Meet

the participants to the seminar on UNSOLVED PROBLEMS IN
PHYSICS

At Tea

on Friday, July 21, 1972, at 5.00 p.m.

RSVP
3191/8

Place: Council Hall
Main Bldg.

SEMINAR ON "UNSOLVED PROBLEMS IN PHYSICS"

Name	Topic
Dr. E.C.C. Sudarshan	Second Law of Thermodynamics
Dr. A. Ramakrishnan	The Grammar of Dirac Matrices
Dr. A.N. Mitra	High Energy Physics
Dr. Gyan Mohan	Studies on relativistic wave mechanics
Dr. S. Datta Mazumdar	The Group Theoretical aspects of quantum mechanics
Dr. A.P. Balachandran	Relativistic Invariance and Discrete Symmetries
Dr. Eric Lord	Gravitation Theory in the Presence of Spinors
Dr. G.E. Ramachandran	Molecular Structure and Biological Activity
Dr. S. Chandrasekhar	Theory of Orientational short range order in liquids
Dr. R. Narasimha	Turbulence
Dr. K.P. Sinha	Some assorted Problems in Solid State Theory
Dr. V. Radhakrishnan	Some Interesting Problems in Astronomy
Dr. Jacob Kurion	Atmospheric Physics
Dr. A.K. Rajagopal	Three problems and their relevance?
Dr. S.K. Srinivasan	Statistical Problems from the view point of probability theory
Dr. Thomas Kailath	Some Directions of Research in Statistical data processing
Dr. V. Narainmurthy	Phonon fluorescence in Superconductors.
Dr. R. Ramanna	Some Problems in Nuclear Physics
Dr. D.P. Majumdar	The Electromagnetic Mass Difference from air x-space point of point of view
Dr. S.N. Biswas	To be announced
Dr. K. Eriksson	To be announced
Dr. S. Pakvasa	To be announced
Dr. N.G. Deshpande	To be announced
Dr. B. Mukunda	To be announced

REVISED Tentative Time Table for the Seminar on "Unsolved Problems in Physics" July 17-21, under the auspices of the Centre of Theoretical Studies, Indian Institute of Science, Bangalore 12, India
 REGISTRATION : 9 a.m. to 9.30 a.m. (on 17-7-1972) Entrance, Faculty Hall, Main Building

	9.30 - 10.30	11 - 12	12 - 1	2.30 - 3.30	4 - 5
July, 17 Inauguration	{ Dr. S. Dhawan Dr. F.C.G. Sudarshan (Dr. F.P. Sinha	Dr. E.C.G. Sudarshan	Dr. S.N. Biswas	Dr. A. Ramakrishnan	Dr. A.N. Mitra
July, 18	Dr. Gyan Mohan	Dr. S. Datta Majumdar	<i>Dr. T. Pradhan</i> Dr. D.P. Majumdar	Dr. V. Narainmurthy	Dr. Eric Lord
July, 19	Dr. R. Ramanna	Dr. V. Radhakrishnan	Dr. S. Chandrasekhar	Dr. R. Narasimha	Dr. K.P. Sinha
July, 20	Dr. G.N. Ramachandran	Dr. Jacob Kuriyan	Dr. A.K. Rajagopal	Dr. S.K. Srinivasan	Dr. Thomas Kailath
July, 21	Dr. I. Eriksson	Dr. S. Pakvasa	Dr. A.P. Balachandran	Dr. N.G. Deshpande	Dr. N. Mukunda

N.B.: It is expected that each speaker will conclude his talk within a period of 30 to 45 minutes, sparing 15 minutes for discussions and observations by others. Participants are free to highlight their own ideas during the discussion time.

K.P. Sinha

(K.P. SINHA)

SEMINAR ON "UNSOLVED PROBLEMS IN PHYSICS"

Name	Topic
Dr. E.C.G. Sudarshan	Second Law of Thermodynamics
Dr. A. Ramakrishnan	The Grammar of Dirac Matrices
Dr. A.N. Mitra	High Energy Physics
Dr. Gyan Mohan	Studies on relativistic wave mechanics
Dr. S.Datta Mazumdar	The Group Theoretical aspects of quantum mechanics
Dr. T. Pradhan	Finite Quantum Electrodynamics
Dr. A.P. Balachandran	Relativistic Invariance and Discrete Symmetries
Dr. Eric Lord	Gravitation Theory in the Presence of Spinors
Dr. G.N. Ramachandran	Molecular Structure and Biological Activity
Dr. S. Chandrasekhar	Theory of Orientational short range order in liquids
Dr. R. Narasimha	Turbulence
Dr. K.P. Sinha	Some assorted Problems in Solid State Theory
Dr. V. Radhakrishnan	Some Interesting Problems in Astronomy
Dr. Jacob Kurion	Atmospheric Physics
Dr. A.K. Rajagopal	Three problems and their relevance?
Dr. S.K. Srinivasan	Statistical Problems from the view point of probability theory
Dr. Thomas Kailath	Some Directions of Research in Statistical data processing
Dr. V. Narainmurthy	Phonon fluorescence in Superconductors.
Dr. R. Ramanna	Some Problems in Nuclear Physics
Dr. D.P. Majumdar	The Electromagnetic Mass Difference from an x-space point of view.
Dr. S.N. Biswas	To be announced
Dr. K. Eriksson	To be announced
Dr. S. Pakvasa	To be announced
Dr. N.G. Deshpande	To be announced
Dr. N. Mukunda	To be announced

Tentative Time Table for the Seminar on "Unsolved Problems in Physics" July 17-21, under the auspices of the Centre of Theoretical Studies, Indian Institute of Science, Bangalore 12, India

REGISTRATION : 9 a.m. to 9.30 a.m. (on 17-7-1972) Entrance, Faculty Hall, Main Building

	9.30 - 10.30		11 - 12		2.30 - 3.30		4 - 5
July, 17	(Dr. S. Dhawan Inauguration (Dr. E.C.G. Sudarshan (Dr. K.P. Sinha	K A F E B R E A K	Dr. E.C.G. Sudarshan		Dr. A. Ramakrishnan	K B R E A K	Dr. A.N. Mitra
July, 18	Dr. Gyan Mohan	B	Dr. S. Datta Majumdar		Dr. A.P. Balachandran	B	Dr. Eric Lord
July, 19	Dr. V. Radhakrishnan	E	Dr. S. Chandrasekhar		Dr. R. Narasimha	E	Dr. K.P. Sinha
July, 20	Dr. C.N. Ramachandran	F E E	Dr. Jacob Kuriyan		Dr. A.K. Rajagopal	F E E	Dr. Thomas Kailath
July, 21	Dr. V. Narainmurthy Dr. Eriksson	C O F F E E	Dr. S. Pakvasa		Dr. N.G. Deshpande	C O F F E E	Dr. N. Mukunda

N.B.: It is expected that each speaker will conclude his talk within a period of 30 to 45 minutes, sparing 15 minutes for discussions and observations by others. Participants are free to highlight their own ideas during the discussion time.

K.P. Sinha
(K.P. SINHA)

REVISED Tentative Time Table for the Seminar on "Unsolved Problems in Physics" July 17-21, under the auspices of the Centre of Theoretical Studies, Indian Institute of Science, Bangalore 12, India

REGISTRATION : 9 a.m. to 9.30 a.m. (on 17-7-1972) Entrance, Faculty Hall, Main Building

	9.30 - 10.30	11 - 12	12 - 1	2.30 - 3.30	4 - 5
July, 17 Inauguration	(Dr. S. Dhawan Dr. F.C.G. Sudarshan Dr. F.P. Sinha <i>S.N. Biswas</i>)	Dr. E.C.G. Sudarshan	Dr. S.N. Biswas <i>A.N. Mitra</i>	Dr. A. Ramakrishnan	Dr. A.N. Mitra
July, 18	Dr. Gyan Mohan	Dr. S. Datta Majumdar	Dr. D.P. Majumdar <i>Dr. T. Pradhan</i>	Dr. V. Narainmurthy	Dr. Eric Lord
July, 19	Dr. R. Ramanna	Dr. V. Radhakrishnan	Dr. S. Chandrasekhar	Dr. R. Narasimha <i>Eric Lord</i>	Dr. K.P. Sinha
July, 20	Dr. G.N. Ramachandran	Dr. Jacob Kuriyan	Dr. A.K. Rajagopal	Dr. S.K. Srinivasan	Dr. Thomas Kailath
July, 21	Dr. I. Eriksson <i>Dr. Deshpande</i> <i>Weak interaction</i>	Dr. S. Pakvasa <i>Leptons</i>	Dr. A.P. Balachandran <i>D.P.M.</i> <i>P.M. Mansur</i>	Dr. N.G. Deshpande <i>V.K.R.V. Rao</i>	Dr. N. Mukunda

N.B.: It is expected that each speaker will conclude his talk within a period of 30 to 45 minutes, sparing 15 minutes for discussions and observations by others. Participants are free to highlight their own ideas during the discussion time.

K.P. Sinha

(K.P. SINHA)

~~Dr. B. S. Madhava Rao~~

(1) Dr. S. N. Biswas

~~Dr. S. N. Biswas~~
Ph.D. from Adelaide
H. S. Green

(Rel. Quant. Mech)

Delhi Univ

T. J. F. R

Delhi Univ
as Prof

working on problems
of class particle
physics

(2) Dr. Datta Majumdar

1. Prof. of Theor. Physics,
IIT, Kanpur

2. D. Sc. of Cal
Univ., 1959.

3. M. Sc. both in
Phys. & Maths (Civ)

4. Has published
more than thirty
papers on ~~Rel.~~
General Relativity
& Quantum Mech.
(Dirac equ. & Group
theory)

5. ~~At~~ At present
working on (a) $SO(n)$
group, (b) Cherenkov
Radiation in anisotropic
media.

(3) Dr. Gyan Mohan

M. Sc. B. W. V

Ph. D. Jorua State (Anisotropic Field Theory)

M. Sc. - N. P. L.

Chancellor, Physics Deptt, Kanpur

Particle (Regge Poles)

SEMINAR ON "UNSOLVED PROBLEMS IN PHYSICS"

Name	Topic
Dr. E.C.G. Sudarshan	Second Law of Thermodynamics
Dr. A. Ramakrishnan	The Grammar of Dirac Matrices
Dr. A.N. Mitra	High Energy Physics
Dr. Gyan Mohan	Studies on relativistic wave mechanics
Dr. S.Datta Mazumdar	The Group Theoretical aspects of quantum mechanics
Dr. T. Pradhan	Finite Quantum Electrodynamics
Dr. A.P. Balachandran	Relativistic Invariance and Discrete Symmetries
Dr. Eric Lord	Gravitation Theory in the Presence of Spinors
Dr. G.N. Ramachandran	Molecular Structure and Biological Activity
Dr. S. Chandrasekhar	Theory of Orientational short range order in liquids
Dr. R. Narasimha	Turbulence
Dr. K.P. Sinha	Some assorted Problems in Solid State Theory
Dr. V. Radhakrishnan	Some Interesting Problems in Astronomy
Dr. Jacob Kurion	Atmospheric Physics
Dr. A.K. Rajagopal	Three problems and their relevance?
Dr. S.K. Srinivasan	Statistical Problems from the view point of probability theory
Dr. Thomas Kailath	Some Directions of Research in Statistical data processing
Dr. V. Narainmurthy	Phonon fluorescence in Super conductors.
Dr. R. Ramanna	Some Problems in Nuclear Physics
Dr. D.P. Majumdar	The Electromagnetic Mass Difference from an x-space point of view.
Dr. S.N. Biswas	To be announced <i>Anharmonic oscillation ^{oscillation}</i>
Dr. K. Eriksson	To be announced
Dr. S. Pakvasa	To be announced
Dr. N.G. Deshpande	To be announced
Dr. N. Mukunda	To be announced

New E.M.S. City
M. Narayan
Banyan-3
50, 10th Main Road,

3469

Room No. 25 (App. Math)

Dr. K. K. Nambiar

(D. V. S. Murthy
Super. Engr.
B. K. S. (with DR)
D. V. Chandrashekhar
Sringeri Engr
(Col. Ph.D.)

INDIAN INSTITUTE OF SCIENCE

BANGALORE 12

15 July 1972

Dr. B.S. Madhava Rao
No. 4, Kankanhalli Road
Basavangudi P.O.
Bangalore 4

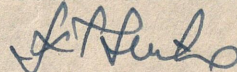
Dear Sir,

You are requested to preside over the sessions indicated below. A copy of the timetable is also enclosed. I hope you will agree to do so.

Chairman of various sessions

	Morning	Afternoon
Mon. July, 17	Dr. S. Dhawan Dr. D.S. Kothari	Dr. B.S. Ramakrishna
Tue. July, 18	Dr. B.S. Madava Rao	Dr. P.S. Narayanan
Wed. July, 19	Dr. S. Bhagavantam	Dr. R.S. Krishnan
Turs. July, 20	Dr. P.K. Bhattacharyya	Dr. V. Krishnan
Fri. July, 21	Dr. S.P. Pandya	Dr. B.S. Madava Rao

Yours faithfully,



(K.P. SINHA)

PROFESSOR OF THEORETICAL PHYSICS