



INDIAN INSTITUTE OF SCIENCE  
BANGALORE 560012

Center for Theoretical Studies

- (1) 4<sup>th</sup> - 13<sup>th</sup> June 1941 - Tea expenses when Bhattha came to College to discuss cascade eqn. - Rs 2/-
- (2) 13<sup>th</sup> - 29<sup>th</sup> - Lunch charges when Bhattha came for discussion second time - Rs 1-8-0
- (3) Telegrams to Bhattha at Bombay & Calcutta.
- (4) 23/4/42 - To Cooker Co. towards Bhattha's Coat racks Rs 3/-
- (5) 26/4/42 - " for Bhattha's trunk (?) - 15/-
- " " from Bhattha by Cash - Rs 10/-
- ~~(6) 23/2/42 - Cooker Co. towards Bhattha's Coat racks - Rs 3/-~~
- (6) 25/4/42 - From ~~Dr~~ Bhattha by Cash towards Reprints - Rs 10/-
- (7) 6/11/42 - To B. T. Ramiah being tea expenses for Bhattha's colloquium - Rs 10/-
- (8) 5<sup>th</sup> - 20<sup>th</sup> April 43 - From ~~Dr~~ Bhattha being B. T. R's dues (Rs 5-7-0) plus amount for supplying 2 Hydrogen plants + packing charges (2 + 0-12-) = 8-3-
- (9) 4/8/43 - To B. T. R being Bhattha's account.
- [ 23/6/1944 - 5.30 A.M. - K. S. K. died of pneumonia in Mysore Hospital
- (10) 18/12/45 - Sewing reprints to Bhattha - 1-2-6

- 14/2/47 - Met Prof. Hadamard at Cart. Str., presented him with two books on  
Armando Ghosh & talked with him about rel. wave eqns
- 31/7/47 - Mrs. Konigsberger's visit
- 10/11/48 - Dinner to Bhagavantham
- 6/4/48 - Air Mail letter to Prof. Keye re. K.V.
- 15/5/48 - Letter to Peter Havas.
- 4-5/7/48 - A. Seshadryer Memorial Tournament - Beat Bowring 64 by 53 - Myself &  
Nandan did best with 26 points.
- 18-20/1/49 - A.E.C. Syllabus Committee meeting <sup>on 26<sup>th</sup></sup> - invited by Bhatnagar & Box (?) - did  
not go for failure to get air passage - got invitation on 18<sup>th</sup>
- 1/4/49 - Air Mail letter to N. Jacobson re Yale Univ (1-2-0) & Report to send  
reprints (0-2-6)
- 25<sup>th</sup>-27/10/49 - M.H. Stone at Bangalore - At Home to him on 26<sup>th</sup>
- 8/6/1950 - Army vs Aircraft - Int. Hockey match - Shyamchand scorer a  
william goal from short corner
- 6/11/50 - Reprints to A.D. Meister, Ill. Inst. Tech.
- 14-16/12/50 - invites by Bhatnagar to Int. Conf. on Chem. Physics at Bombay T.O.F.R. - made  
contacts - nice time
- 8/2/51 - sending reprints to Wentzel, Rosenfeld & Seligmann to their  
Bombay T.O.F.R. address
- 3/52 - Attended weekly at Delhi re. Cosmic ray Committee (?)
- 7/7/52 - Received momentary letter from Bhatnagar (?)
- 31/10/52 - Sir C.V.'s present on Leelab marriage
- 20/12/52 - Cosmic ray Committee meeting at Delhi
- 7/4/54 - <sup>To</sup> Norbert Weiner <sup>re</sup> advertisement - rogue.
- 5/11/54 - Air Mail letter to Max Born on his Nobel Prize
- 11/54 - Cosmic ray Committee meeting at Delhi ✓
- 10/11/55 - India to Nagpur as Captain of the M.P. Univ. Kho-Kho team
- 22/2/55 - letter to Dirac
- 27/2/55 - visit of Schwarz & Maass.
- 30/4/55 - Air Mail letter to Schwarz at Paris
- 23/1/56 - letter to British Who's Who in Science
- 28/6/58 - Attended Bombay A.E.C. meeting ✓



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2/8/58 - Bought T. J. F. R.'s World Directory of Mathematicians ✓

15/1/60 - Summary reports of <sup>my</sup> previous addresses to Sir C. V. R. & J. D. ✓

1/7/75:

Back radiation

lance "

Annual march of

diurnal "

mean annual

latitudinal dist<sup>n</sup>

monthly in Antarctica

seasonal dist<sup>n</sup>

variation of the atmosphere

" Earth's surface

" surface-atmospheric system

" oscillations

" zero

Effect on the thermal regime of clouds

Radiation by Krishna Prasad

(1)

Author to concentrate on thermodynamic aspects - Temperature structure due to radiation - solar & terrestrial radiation

Local thermodynamic equilibrium - ~~not~~

Kirchoff's law of energy balance - Eulerian form - mode of energy transfer due to radiation.

Biographical Memoirs of Royal Society Vol. 13, ~~1967~~ 1967 p. 31

Dec 24/1/66 (1909-1966)

Dr Homnaje Bhabha C.I.E. - D.Sc. & D.Phil.

2nd world war starts in 1939 - M.G.K. Menon considers that the five years Bhabha spent at the I.I.T., was the period when he found his mission in life

During war years Bhabha's contributions notably to the theory of particles of high spin. In this work he displays knowledge & skill in methods of modern algebra to a degree quite unusual among theoretical physicists

1940 - Post. Reader - in charge of Theoretical Computation Unit (Tata Trust)

1942 - Professor

(Got F.R.S. in 1941)

In Bangalore he was indeed in a class of his own. Not well known internationally, but gave his own particular intellectual pleasure - No work after 1959

1963 - Sci. Congress Presidential address of recent advances in fundamental physics

Rev. Mod. Phys.

1957 - Proc. Ind. Acad 34, p. 335, 1957.

Paper on Spin 3/2. (on a class of relativistic wave equations of spin 3/2)

Ref. to Rev. Mod. Phys 1945 & 1949  
Proc. Ind. Conf., Bombay 1950

Draze, Fierz & Pauli (Roy. Soc. ~~1939~~, 1939, 173 A, 311)

Δ K. Gupta (at least in course of publication)

Does not at all refer to our joint paper in Proc. Roy. Soc. 1946, 187, p. 385  
& does not care to enquire the relation of this paper with his work  
Disgraceful!

K & Nieto refer only to our work & not to the above paper of Bhalla

1942 papers of Bhalla: Compton effect, scattering by radiation, cascade theory, cosmic

radiation

1944 - with H. Chandra - Proc. Roy. Soc. 1945, Vol. 183, p. 134 (nothing to do with algebra)

1945 - ~~A paper~~ on theory of elec. particles - ~~Proc. Roy. Soc.~~ Proc. Phys. Soc., Vol. 10 (1944-45)

(T. D. FR) p. 253 - No. reference to my work in the body of the paper but only in the Bibliography 1942 paper is mentioned

only refers to H. Chandra 1946, Proc. Roy. Soc. A, 185, p. 269-87.

[ note - Bhalla's refn theory of d. groups in 5 dimns has been anticipated by Lubanski (1942), Kramer, Belinfante & Lubanski (1941) as pointed out by Pauli in a letter to Bhalla (ft. note on p. 265 of Proc. Roy. Soc. paper) ]

H. Chandra Proc. Roy. Soc. A. 185, pp. 269-87, 1946. (nothing algebraic in this paper)

In the Ref. Proc. Phys. Soc. paper Bhalla gives his "alternative scheme" put forward by him in his Rev. Mod. Phys. paper as he claims not that postulate B

on p. 262 shall hold for all spin

Postulate B: The particle field is completely described by an eqn of the form