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Dedicated to **Prof. K. Srinivasa Rao**

(75th Birth Anniversary)



$$\sum_{n=0}^{\infty} \frac{q^{n(n-1)}}{[q; q]_n} = \frac{1}{[q^2, q^3; q^5]_{\infty}} + \frac{1}{[q, q^4; q^5]_{\infty}}$$

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CITATION

Dedicated to Prof. K. Srinivasa Rao on his 75th Birth Anniversary



Dr. K. Srinivasa Rao, FAvHS, FNASc., FTNASc., with research interests in: Special Functions, q-series, group theory, numerical and algebraic computational methods, and Ramanujan's Notebooks, retired as a Senior Professor, Institute of Mathematical Sciences (May 1964 – November 2002). From Dec. 2002 to April 2005, he created two CD ROMs on the Life and Work of Srinivasa Ramanujan, for the Department of Science and Technology, Government of India. He was the first Distinguished DST - Ramanujan Professor, at the Srinivasa Ramanujan Center, SASTRA University, Kumbakonam, from May 2005 – March 2009. At present he is associated with the Tamilnadu Science and Technology Center (TNSTC), Kottupuram, Chennai, as a Consultant for enlarging the Pie (ie) Pavilion and Ramanujan Gallery (created by him for the Indian Science Congress Exhibition, 1998, and housed in the TNSTC, since the middle of 1999) into a full-fledged Ramanujan Mathematics Museum. He is at present the Director of the Srinivasa Ramanujan Academy of Maths Talent, Chennai; Vice-President of the DAE Retired Officers Association, Chennai; Vice-President of the Rotary International, Kumbakonam (Central), 2006-2009.

He was an Alexander von Humboldt Foundation Fellow at University of Bonn and at the Arnold Sommerfeld Institute, Clausthal-Zellerfeld, between Feb. 1977 – 1980 (for 2 years) ; a Visiting Professor at: the Rennselaer Polytechnic Institute, Troy, New York, Aug. 1978 – May 1979; University of Texas, Austin (4 mos. 1986); Duke University, Durham (4 mos. 1988); visited and lectured at Universities in Austria, Belgium, Canada, England, France, Germany, Italy, Japan, Mexico D.F., Russia, Sri Lanka, Sweden, Switzerland, The Netherlands, USA. Coordinator and Principal Investigator in a 4-year Indo-Belgium collaboration Project funded by the European Economic Commission, at the Ghent University, Ghent, Belgium, between 1990 and 1994. Most recently, he visited Max Planck Institute for Mathematics and the University of Bonn, during 18 – 23 June 2012, to deliver lectures on 'Gauss, Ramanujan and hypergeometric series' and the 'Life and work of Ramanujan'.

Details of “K. Srinivasa Rao and his work”, are in the Journal of Computational and Applied Mathematics, Vol. 160, 2003, two issues of which volume (nos. 1 - 2) have been “Dedicated to Professor K. Srinivasa Rao on the occasion of his 60th Birthday”. This is a 388 page volume, with contributions from many contemporary mathematicians, who are specialists in the area of Special Functions of Mathematical Sciences. Recently, January 2012, Srinivasa Rao was awarded the “Lifetime Achievement Award” by the Srinivasa Ramanujan Academy of Maths Talent, for his contributions and the citation read “for his significant contributions to Research in Theoretical Nuclear Physics, Quantum Theory of Angular Momentum and Group theoretical methods, and for creating two comprehensive CD ROMs on the Life and Work of Srinivasa Ramanujan.

See the website: www.imsc.res.in/~rao for his Curriculum Vitae and see the website created by him for the Mathematical Genius Srinivasa Ramanujan at: www.imsc.res.in/~rao/ramanujan (Acclaimed as a contribution to “Mathematics and Mathematicians”, by Prof. George E. Andrews, Penn. State Univ., Pennsylvania).

- January, 2014

“K. Srinivasa Rao and his work”

G. Vanden Berghe, J. Van der Jeugt and Walter Van Assche

Journal of Computational and Applied Mathematics

Vol. 160 (2003) 1–388

(A Festschrift, brought out on the occasion of his 60th Birthday, being the Proceedings of the International Conference on Special Functions and their Applications, held at the **Institute of Mathematical Sciences, Chennai**, 23–27, September 2002).

SUMMARY:	Publications in International Journals	65
	Publications in National Journals	14
	Publications in International Conference Proceedings	21
	Publications in National Conference Proceedings	26
	Technical Articles	32
	Books (4), Edited Vols. (8), LNR (8), AIR (13), DD (18)	51

Total : 219

“Srinivasa Rao's research work in mathematical sciences has three parts: theoretical nuclear physics, quantum theory of angular momentum and its applications and computational physics.”

“Srinivasa Rao is an enthusiastic research worker who presents his work, be it on QTAM or the Life and Work of Srinivasa Ramanujan, with passion and infectious enthusiasm. Attending his lectures is like going to a well-organized performance. His pride for India is shown in all his power point presentations where he uses as background the colours of the Indian flag. He is a lively conversation-alist, loves Carnatic and Western music and is a movie buff. He is a promoter of the vegetarian cuisine and the cultural heritage of his country. The participants of every conference he organizes can expect, apart from a strong scientific program, also a cultural evening or weekend program: events such as traditional dance performance, a concert of Carnatic music or modern Indian pop music, a trip to a typical Tamil movie and visits to ancient Hindu temples are part of these activities”. – excerpts from “K. Srinivasa Rao and his work”, W. Van Assche, G. Vanden Berghe, J. Van der Jeugt, in the Journal of Computational and Applied Mathematics, Special issue, Proceedings of the International Conference on Special Functions and their Applications, IMSc, Chennai, India, 23 – 27 September 2002; Dedicated to Professor K. Srinivasa Rao on the occasion of his 60th birthday; Vol. 160, Numbers 1-2, Pages 1 – 388, 1 November 2003.

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- “Ramanujan Award 2013” from Ramanujan Mathematics Academy and Mathematics Library, Ramachandrapuram, E.G. Dist., A.P., on Jan. 5, 2014.
- “Lifetime Achievement Award”, Srinivasa Ramanujan Academy of Maths Talent, Chennai, in 2010;
- “Tamilnadu Scientist Award” and “Science Popularization Award”, of the State Council for Science and Technology, Government of Tamil Nadu, in 2000.



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- 1. Hardy, G.H.:** S. Ramanujan, twelve lectures on the subject suggested by his life and work, 1940, Cambridge Univ. Press.
- 2. Maddox, I.M.:** Spaces of strongly summable sequences Quart. J. Math. (Oxford) (2), 18 (1967), 345-355.

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