



# C R Rao Advanced Institute of Mathematics, Statistics & Computer Science (AIMSCS)

University of Hyderabad Campus, Gachibowli  
Prof. C R Rao Road, Hyderabad, India 500 046  
Website: <http://crraoaimscs.org>



## A one day Workshop on Mathematics Music and Nature

*under DST sponsored project on  
Mathematical Legacy of Ramanujan and its Applications (MLRA)*

### About the Workshop:

Music theorists sometimes use mathematics to understand music, and although music has no axiomatic foundation in modern mathematics, mathematics is "the basis of sound" and sound itself "in its musical aspects... exhibits a remarkable array of number properties", simply because nature itself "is amazingly mathematical". Mathematics, Music and Nature involves patterns, structures, relationships and generate ideas of great beauty and elegance. Music is a fertile testing ground for mathematical principles, while mathematics explains the sounds instruments make and how composers put those sounds together and nature contain both.

Name of the Speaker	Title
<b>Prof P M Bhargava</b> Anveshana, Hyderabad	Two Faces of Beauty: Science and Art
<b>Shri K Sadgurucharan</b> A Grade Artist, Mridungam AIR Vijayawada	Permutations, Combinations & Progressions in Mridangam
<b>Shri Akella Mallikarjuna Sarma,</b> Retired Principal, Government Music College, Hyderabad	An Introduction to Math Music
<b>Dr K S Subramanian</b> Founder Director Brhaddhvani & <b>Dr Srikumar Subramanian</b> Pramati Technologies, Chennai	Mathemusicking with children : Doing Mathematics and Music without telling them apart
<b>Dr K Sri Rama Murty</b> Assistant Professor IIT Hyderabad	Significance of Phase in Speech Signal Processing
<b>Dr P V Sundaranand</b> Associate Professor C R Rao AIMSCS	Music with Mathematical Eye

Date and time : 14th March 2015, Saturday. 9.00 a.m. to 5.30 p.m.

Venue: Auditorium, Ramanujan Building, C R Rao AIMSCS

*financially  
supported by*



Government of India  
Department of Science & Technology  
Ministry of Science & Technology

There is no registration fee. Interested participants should register on or before 05:00PM on 12th March 2015 (Thursday) by email to [ramanujan127@crraoaimscs.res.in](mailto:ramanujan127@crraoaimscs.res.in) with a subject as "MMN2015"

For details visit <http://crraoaimscs.org>