

THE MATHEMATICS IN OUR MUSIC

November, 25th 2016, 6:30pm – 7:30pm

@ Habib University Auditorium



ABOUT THE TALK:

This talk will analyze the shared 12 tone scale, used in almost all musical traditions around the world, in terms of its frequencies and highlight some of the unique approaches to their treatment in South Asian music. The discussion will then graduate towards the modular arithmetic found in the world of rhythm in South Asian music with demonstrations of how those calculations manifest themselves in the unique poetry of the language of tabla. The speaker will be accompanied by young sitar prodigy Shehroze Hussain for the melodic demonstrations and the legendary Ustad Khursheed Hussain for the final tabla compositions.

ABOUT THE SPEAKER:

Yousuf Kerai is a faculty of mathematics in the Integrated Sciences and Mathematics department of the School of Science and Engineering at Habib University. Simultaneously, Yousuf is an accomplished musician who has dedicated much of his time to helping young listeners engage with their South Asian musical inheritance. He directs an ensemble of master musicians of Pakistan called Tarz Group, reformulating the performance and presentation of South Asian music to be more appealing for the uninitiated listener. At Habib University, Yousuf will be formulating an elective course on Music and Mathematics for the next academic year.



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