

Open Talk

7th February, 2018

4:00 PM

Fermion Hall

SPEAKER

Dr. Vishal Vasan

Assistant Professor,

International Centre for Theoretical Science, Bangalore

TITLE OF THE TALK

"Some inverse problems in water waves"

ABSTRACT

This talk will cover two problems that combine theoretical and experimental investigations. The ability to perform experiments not only helps validate the solution to a problem, but often helps in the modeling aspect too. In this talk, I will describe two such problems related to the water waves: (1) obtaining the free surface of the fluid given the pressure measured at the bottom bed, (2) obtaining the shape of the bottom bed given the shape of the free surface of the fluid. I will also discuss, how these problems are approached in the laboratory and the degree of success of our models versus physical measurements.

VENUE

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HOST FACULTY – Professor Partha Guha