

NITheCS MINI-SCHOOL: Green's Functions for Ordinary Differential Equations

Dr Laure Gouba (ICTP, Trieste, Italy)

Wednesday 5, 12, 19 & 26 October 2022 | 14h00 – 15h00 SAST

ABSTRACT

The mini-course is restricted to solving non-homogeneous linear second-order ordinary differential equations, with given boundary conditions, by the method of Green's functions.

This method can be easily generalised to problems where the method of variation of constants fails.

Green's functions play a very important role in mathematics and in theoretical physics. They can be used to reduce the eigenvalue problem associated with a differential operator to the more tractable eigenvalue problem for an integral operator.

BIOGRAPHY

Dr Laure Gouba is a mathematical physicist, in visit at the Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy.



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