

Nonlinear ODE in Complex Form

Moduli of punctured tori and Lamé equation

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10:40 - 12:20

308, Mathematics Research Center Building (ori. New Math. Bldg.)

In this talk, we review some basic facts of Riemann surface, Teichmüller space and Fricke moduli for singly punctured torus. Then we will describe the inverse of the covering map which is actually the quotient of two independent solutions of a Lamé equation.

Reference: Moduli of punctured tori and the accessory parameter of Lamé's equation by L. Keen, H. E. Rauch and A. T. Vasquez, Trans. Amer. Math. Soc. vol 255 1979.

