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Department of
Theoretical Physics

THE QUANTUM
SPACETIME
SEMINAR SERIES

Eigenvalue Equation for the Modular Graph $C_{a,b,c,d}$

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Date: October 21st, 2019

Time: 11.30 am

Venue: A-304, TIFR
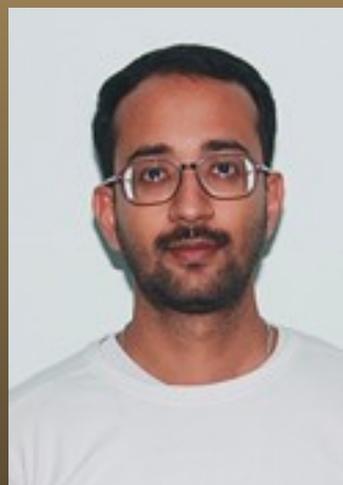
The modular graph $C_{a,b,c,d}$ on the torus is a three loop planar graph in which two of the vertices have coordination number four, while the others have coordination number two. We obtain an eigenvalue equation satisfied by $C_{a,b,c,d}$ for generic values of a, b, c, and d. This family of graphs arises in the calculation of one loop amplitudes in superstring theory.