



Department of
Theoretical Physics

THE QUANTUM SPACETIME SEMINAR SERIES

QFT perspectives on topological modular forms

(Zoom Seminar)

Yuji Tachikawa

(Kavli IPMU, Japan)

Date: September 25, 2023

Time: 10 AM IST

Zoom link shall be shared separately



There is a long-standing conjecture that the 2d $N=(0,1)$ supersymmetric theories, under suitable equivalence relation, are classified by an esoteric mathematical construct known as topological modular forms. Starting from a baby version, which is a well-established claim that supersymmetric quantum mechanics is related to K-theory, I will try to give a brief summary of the current understanding of this conjecture.