

## **abstract**

Computer Science/Discrete Mathematics Seminar II  
Topic:

Speaker:

Affiliation:

Date:

Time/Room:

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Shor's algorithm, the hallmark quantum algorithmic breakthrough, has been successfully generalized to address a variety of related algebraic problems. Generalizations to nonabelian settings could have striking consequences, but such efforts have been systematically frustrated. This talk describes a rigorous obstruction to such natural generalizations and the connection to Graph Isomorphism. Along the way, we will give a friendly introduction to one of the gems of 19th century mathematics: the representation theory of finite groups.