

LECTURE SERIES

Memorial Conference for the founders of index theory: Atiyah, Bott, Hirzebruch and Singer

April 20, 2021

9:00am ET- *Virtually*



Dan Freed

University of Texas at Austin

"The Atiyah-Singer Index Theorem"

The story of the index theorem ties together the Gang of Four—Atiyah, Bott, Hirzebruch, and Singer—and lies at the intersection of analysis, geometry, and topology. In the first part of the talk I will recount high points in the early developments. Then I turn to subsequent variations and applications. Throughout I emphasize the role of the Dirac operator.

Talk chair: Cumrun Vafa

This lecture will be held virtually.
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