

LECTURE SERIES

Mathematical Science Literature

September 30, 2020

9:00am ET- Virtually



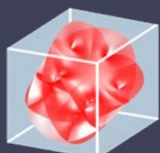
Claire Voisin
Collège de France

“Hodge structures and the topology of algebraic varieties”

We review the major progress made since the 50's in our understanding of the topology of complex algebraic varieties. Most of the results we will discuss rely on Hodge theory, which has some analytic aspects giving the Hodge and Lefschetz decompositions, and the Hodge-Riemann relations. We will see that a crucial ingredient, the existence of a polarization, is missing in the general Kaehler context. We will also discuss some results and problems related to algebraic cycles and motives.

Talk chair: Peter Kronheimer

This lecture will be held virtually.
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