

## **The Abel-Jacobi map and homotopy theory**

Gereon Quick, LMU

Calculating the residues for rational integrals in complex variables is a classical problem in mathematics. It is directly related to questions on algebraic cycles, their cohomology classes, and the Abel-Jacobi map. In this talk I will present joint work with Michael Hopkins in which we use topological cohomology theories to shed some light on the Abel-Jacobi map.