



BRIN MATHEMATICS  
RESEARCH CENTER

# Brin MRC Distinguished Lecture

## Algebraic and Differential Geometry A Two-sided Relationship

*Nigel Hitchin, Oxford University*

Dates: April 10 and 12, 2024

Time: 3:15 PM

Location: 3206 Kirwan Hall

### **Abstract**

Riemannian geometry has long been applied to algebraic varieties but the influence also runs in the opposite direction with algebraic constructions leading to integrable systems, geodesics and solutions to Einstein's equations. The lectures will address different aspects of these, in particular with reference to the moduli spaces which have appeared in geometry since the introduction of gauge theories.



### **About the Speaker**

Nigel Hitchin gained his PhD from Oxford University in 1972 and has spent much of his career there, although from 1990 until 1997 he held chairs successively in Warwick and Cambridge. He is now Emeritus Savilian Professor of Geometry in Oxford. His interests are in differential and algebraic geometry and their relationship with problems in theoretical physics. He was elected a Fellow of the Royal Society in 1991 and received its Sylvester Medal in the year 2000. In 2016 he was awarded the Shaw Prize in Mathematical Sciences.



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