JAMES LEWIS, University of Albeta.ca
The Business of Height Pairings

In algebraic geometry there is the notion of a height pairing of algebraic cycles, which lies at the confluence of arithmetic, Hodge theory and topology. After explaining a motivating example situation, we introduce new directions in this subject. (This is joint work with Souvik Goswami, and will appear in a special volume in honour of Steven Zucker's 65th birthday.)