



## The signature of a fibration modulo 8

Carmen Rovi<sup>1</sup>

In this talk we shall be concerned with the residues modulo 4 and modulo 8 of the signature  $\sigma(M) \in \mathbb{Z}$  of an oriented  $4k$ -dimensional geometric Poincaré complex  $M^{4k}$ . The precise relation between the signature modulo 8, the Arf invariant and the Brown-Kervaire invariant will be given. Furthermore we shall discuss how the relation between these invariants can be applied to the study of the signature of a fibration modulo 8.

<sup>1</sup>School of Mathematics, University of Edinburgh  
Edinburgh EH9 3JZ, Scotland, UK  
c.rovi@sms.ed.ac.uk