2-COMPLEXES WITH THE NON-POSITIVE IMMERSION PROPERTY

 $\begin{array}{c} {\rm JIM\ HOWIE\ (HERIOTT\text{-}WATT)} \\ {\rm 3\ MAY\ 2018} \end{array}$

Abstract: A 2-complex X has non-positive immersions if every compact connected, non-contraactible 2-complex Y admitting an immersion $X \to Y$ has non-positive Euler characteristic. This concept was introduced by Dani Wise in connection with Baumslag's conjecture that one-relator groups are coherent. A theorem of Helfer and Wise – and independently of Louder and Wilton - says that the geometric realisation of a torsion-free one-relator group presentation has the non-positive immersions property. I will present a relative version of this theorem, together with a umber of related results. This is joint work with Hamish Short.