

# SIGNATURES OF HERMITIAN FORMS

**Thomas Unger**

(University College Dublin, Dublin)

Let  $F$  be a formally real field,  $A$  a central simple  $F$ -algebra and  $\sigma$  an  $F$ -linear involution on  $A$ . I will describe how to compute signatures of hermitian forms defined over  $(A, \sigma)$  with respect to orderings on  $F$  and address a gap in the literature. As an application I will discuss torsion in Witt groups and sums of hermitian squares.

This is joint work with Vincent Astier.