

# THE MAXIMUM MODULUS OF A TRIGONOMETRIC TRINOMIAL

**STEFAN NEUWIRTH**

UNIVERSITÉ DE FRANCHE-COMTÉ (FRANCE)

ABSTRACT. We isolate the maximum modulus points  $x$  of a trigonometric trinomial  $T$ . This enables us to compute the exposed and the extreme points of the unit ball of the space  $C$  of trinomials, to describe how the maximum modulus of  $T$  varies with respect to the arguments of its Fourier coefficients and to compute the norm of unimodular relative Fourier multipliers on  $C$ . We obtain in particular the unconditional constant of the canonical basis of  $C$ .