

# **REAL FANO THREEFOLDS WHICH ARE GRAPHS OF CUBO-CUBIC TRANSFORMATIONS**

FRÉDÉRIC MANGOLTE

From the classification of real rational surfaces worked out by Comessatti at the beginning of the 20th century we get the following striking characterization of real rational surfaces: a geometrically rational real surface is rational if and only if its real locus is non-empty and connected. In a work in progress with Andrea Fanelli, we explore real loci of geometrically rational Fano threefolds in relation to their rationality.