

An International Conference to  
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## NON LOCAL MINIMAL SURFACES

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**Abstract:** In this presentation we will consider boundaries of sets that minimize fractional derivatives of the sets, resulting on an integral mean curvature equation and movement by integral mean curvature. This type of equations arise in phase transition problems with long range correlations, in particular in termo-elastic bodies This is joint work with Roquejoffre, Savin and Souganidis.