

Title:           Generalisations of H-measures

H-measures (also known under the name microlocal defect measures) are Hermitian matrix Radon measures defined on the cospherical bundle (Tartar '90, Gérard '91). They proved as a convenient tool in the study of partial differential equations, in particular for asymptotic questions, such as homogenisation. In some applications this relation to the cospherical bundle turned out to be a limitation, in particular for the equations (such as parabolic) where the order of derivatives in different variables is not the same. A generalisation of H-measures will be described, in particular a parabolic variant, with some examples.