

# Equations for General Thin Shells

José M. M. Senovilla

Departamento de Física Teórica e Historia de la Ciencia, Universidad del País Vasco UPV/EHU, Apartado 644, 48080 Bilbao, Spain

## Abstract

The complete set of equations for thin shells of arbitrary, even changing, causal character are presented in arbitrary dimension. For the traditional cases of everywhere non-null, or everywhere null, shells novel equations emerge different from the standard Israel relations [3] and their generalizations [2, 1, 4], and these new equations contain relevant information. All the results are purely geometrical, hence they can be used in any theory based on a Lorentzian manifold. Based on [5].

## References

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