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Conformal Killing tensors and fixed energy R-separation for the Schroedinger equation

A general geometric framework for the separation of variables in a null PDE of second (or higher) order is presented. The method is applied to the case of the R-separation of the Schrödinger equation with a fixed value of the energy. An intrinsic characterization of the fixed energy R-separation involving conformal Killing tensors is shown.

This is joint work with Giovanni Rastelli.