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GEOMETRY OF STATIONARY SETS FOR THE WAVE EQUATION IN $\mathbb{R}^n$. THE CASE OF FINITELY SUPPORTED INITIAL DATA: AN ANNOUNCEMENT

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Abstract. We consider the Cauchy problem for the wave equation in the whole space $\mathbb{R}^n$, with initial data which are distributions supported on finite sets. The main result is a precise description of the geometry of the sets of stationary points of the solutions to the wave equation. Complete proofs are given in [6].

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