

# **Non-Conventional Effects Induced by Energy Density in Materials: An Introduction to DST-Reactions**

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**Abstract.** Since about three decades, Italian researchers are realising nuclear reactions in solid and liquid materials, in conditions that are considered not suitable according to the commonly accepted theories. These results were obtained by following the suggestion of the so-called Deformed Space-Time (DST) theory. An overview of some of these experimental achievements is reported together with a short introduction to fundamental aspects of the theory. Recent results implying a breakdown of the Lorentz Local Invariance are also reported and suggestions toward a systematic use of DST-reactions are given.