

On systems of semilinear hyperbolic functional equations

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The aim of the talk is to consider systems of second order semilinear hyperbolic partial differential equations where the lower order (nonlinear) terms contain functional (non-local) dependence on the unknown function. Existence of solutions for $t \in (0, T)$, $t \in (0, \infty)$ and some qualitative properties of the solutions in $(0, \infty)$ will be shown. Further, examples will be considered.