

Workshop Exploratoriu
Direcții actuale și de perspectivă în cercetarea matematică
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Critical problems in nonlinear dispersive equations

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Nonlinear dispersive equations model wave-like phenomena where nonlinear interactions occur. In a broad sense, critical means that the effect of the nonlinear interactions is comparable to the effect of the linear evolution. The aim of the talk is to introduce some of the more interesting problems in this direction, and to describe recent results and open problems concerning global regularity vs. blow-up phenomena.