INSTITUTUL DE MATEMATICĂ "SIMION STOILOW" AL ACADEMIEI ROMÂNE

Seminarul de teoria operatorilor

On the absence of "splash" singularities in the case of two-fluid interfaces

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Abstract: We show that the water-wave "splash" scenario discovered by Castro - Cordoba - Fefferman - Gancedo - Gomez Serrano cannot develop in the case of locally smooth solutions of the two-fluid interfaces in two dimensions. This result is joint with Charles Fefferman and Alexandru Ionescu.