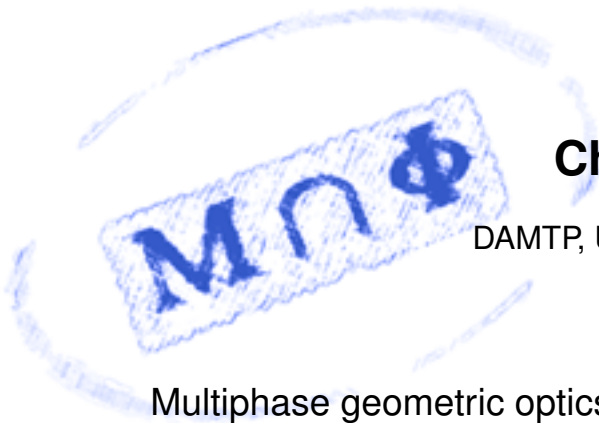


Séminaire de mathématique physique



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Multiphase geometric optics for weakly nonlinear Schrödinger equations

Résumé : We consider cubic nonlinear Schrödinger equations in a weakly nonlinear semiclassical scaling. We describe and rigorously justify the nonlinear interaction of highly oscillatory waves and characterize the set of possible resonances. The analytical framework is based on Wiener algebras. Finally we shall briefly discuss the case of nonlocal nonlinearities of Hartree type.

Jeudi 6 mai à 16 :15 — salle A318, 3ème étage