

UW Mathematics Colloquia 2009/10

Mark Williams

University of North Carolina

Geometric Optics Expansions for Quasilinear
Hyperbolic Fixed and Free Boundary Problems

We explain how to show that the leading term in classical (and previously formal) geometric optics expansions of highly oscillatory solutions is close (in L^∞ norm) to the true exact solution for small wavelengths. The method applies both to fixed boundary problems and to certain free boundary problems such as multiD shock problems.

Friday, Sep 25 ~ 3:10 – 4:00 p.m.

Classroom Building ~ Room 310

Please join us for a reception preceding the talk.

2:30 ~ 3:00pm @ Ross Hall 223 / Mathematics Lounge

U of Wyoming– Department of Mathematics

Please direct any questions
about the colloquium to
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