



Pacific Institute *for the*
Mathematical Sciences

PIMS SPECIAL SEMINAR

Velocity Bounds for the Vlasov-Poisson System



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The Vlasov-Poisson System models a collisionless plasma when the particle velocities are sufficiently small compared to the speed of light.

It was shown in the early 90s that smooth compactly supported initial data lead to solutions that remain smooth for all time. The central issue in the proof is to establish a bound on the particle velocities. This was first done by Pfaffelmoser, but better estimates have been produced since.

This talk will review the development of these estimates and discuss a recent refinement.

DATE: Friday, April 16, 2010

TIME: 2:30 -4:00 pm

LOCATION:

**University of Victoria
David Strong Building, Room C112**



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