

Colloquium

Generalized Riemann Solver to Compressible Euler-Poisson Equations in Spherically Symmetric Space-times

主講人：洪盟凱 教授
國立中央大學數學系

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摘 要：

In this talk, we introduce a new version of Riemann solver to compressible Euler-Poisson equation in spherically symmetric space-times. We re-formulate the degenerate hyperbolic balance laws or mixed type equations into a standard type of quasilinear hyperbolic balance laws in each Riemann cell. Then, the generalized Riemann solutions are constructed as the combination of homogeneous Riemann solutions and the perturbation terms solving a linearized system around those homogeneous Riemann solutions. This is the joint work with Reyna Quira of NCU.