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Stability of the vacuum for the Vlasov-Poisson in a convex domain with perfectly conducting walls

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We consider the Vlasov-Poisson with a perfectly conducting wall in a class of convex infinite domains and we show that small initial data lead to global solutions which satisfy a form of modified scattering, with the asymptotic data supported on a maximum cone in the domain. This is joint work with W. Huang and M. Suzuki.

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