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# Quasineutral limit for the Vlasov-Poisson system

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## Abstract

We shall study the quasineutral limit in Sobolev spaces for the Vlasov-Poisson system. As we shall see the validity of this limit is linked to linear stability properties of the profile in velocity of the initial data well-known as the Penrose stability criterion.(joint work with Daniel Han-Kwan)

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