YONSEI MATH Colloquium

On a derivation of the polyatomic Vlasov equation with vibratory and rotational motions

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Abstract: In this talk, we discuss a mathematical theory for polyatomic gas. Polyatomic gas is common in our environment. For examples, hydrogen, nitrogen, oxygen. However, in the mathematical theory of gas, one assumes that each particle of gas is monoatomic for simplicity. Here, we derive a polyatomic Vlasov equation with the self-consistence Poisson force field and prove the global existence of the solution to the polyatomic Vlasov-Poisson equation with vibratory and rotational

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Talk 17:00
(Tea 16:40)
For more details
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