

Homogeneous Boltzmann equation and the α -stable processes

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In the talk, infinite energy solutions to the homogeneous Boltzmann equation for Maxwellian-type molecules will be discussed. In particular, similarities between the homogeneous Boltzmann equation and the fractional heat equation will be emphasized. Moreover, I will show how to construct self-similar solutions to the homogeneous Boltzmann equation for Maxwellian-type molecules which correspond to α -stable densities.

This is a joint work with **Marco Cannone** and **Eleftherios Ntovoris**.

REFERENCES

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