Contribution ID: 39

Effective dynamics of a tracer-particle coupled to the ideal Fermi gas in the high-density limit

Monday, 23 March 2015 17:15 (20 minutes)

A tracer-particle coupled to the ideal Fermi gas in two spatial dimensions is considered. We prove that the time evolution of the system converges to the free dynamics in the high-density limit. Eventually, we explain why this can be understood in the sense of a mean field result despite the absence of a weak coupling parameter.

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Session Classification: Mathematical Physics & QFT