

## Open issues on the transport phenomena of 1D quantum magnets <sup>1</sup>

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I will discuss recent theoretical developments on the dynamics of one dimensional quantum magnets [1]. In particular, I will focus on open issues and controversial results related to the finite temperature transport of integrable models [2]. These singular systems are commonly used in the description of quasi-one dimensional materials. They are recently attracting interest in connection to experiments, following the discovery of unusual thermal conductivity in quasi-1D magnetic materials [3].

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