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Jorge KURCHAN - A gift from Lie algebras to transport problems: hidden equilibrium, duality and extensions to the quantum case.

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A family of transport models, including the better understood ones, may be mapped onto a dual model that is simpler,
or directly to an equilibrium problem. These properties, unrelated to integrability, are easily understood once one uncovers the group structure
behind them. This structure also allows one to extend the constructions to the quantum case, with minimal mental effort.

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