

# Optimal transport, wave functions and single electron densities

*Friday, 26 November 2021 15:15 (45 minutes)*

I will discuss some properties of the mapping from wave-functions to single particle densities. In particular I will show that in some case this mapping is open.

The tool will be the construction of special transport plans with given marginals. This partially answers an open question of E.H. Lieb. (From a joint work with Ugo Bindini).

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**Session Classification:** main contributions