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Fedor L Nazarov* (nazarov@math.kent.edu) and **Alexander Olevskii**. *A simple example of a characteristic function of a set of finite measure on the line whose Fourier transform vanishes outside a set of zero density*. Preliminary report.

We shall construct a characteristic function of a set of finite measure on the line whose Fourier transform vanishes outside a set of zero density. (Received January 17, 2016)