

On free deconvolutions via analytic subordination

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The free additive and multiplicative deconvolutions are the inverses of the free additive and multiplicative convolutions of probability measures.

Ø. Ryan and M. Debbah have shown that calculating free deconvolutions is important for applications on signal processing.

In this talk we show that the approach of Belinschi and Bercovici for computing free convolutions via analytic subordination can be modified to compute free deconvolutions.

This is joint work with Octavio Arizmendi and Pierre Tarrago.