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Real and motivic integration of oscillating functions

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At a very basic and introductory level, some new results on real and motivic integrals are presented and put in context. It concerns results on Fourier transforms of analytic functions and on oscillating integrals in general. Instead of giving a rigorous introduction to motivic integrals, we illustrate them by explaining the general philosophy of motivic oscillating integrals. No preliminary knowledge is required.