Microlocal complex deformations revisited

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In 1995 Shu Nakamura, motivated by the works of Sjöstrand and Martinez, introduced an elegant and efficient approach to microlocal exponential weights. I will explain how that approach relates to Sjöstrand's theory based generalized Bergman kernels and show how it can be generalized to apply to larger classes of weights.Applications to spectral theory will then be illustrated by numerical examples. Joint work with Jeff Galkowski.