

Harmonic survivors: fixed points of the Berezin transform on Fock-type spaces

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We study the fixed points of the Berezin transform on the Fock-type spaces F_m^2 with the weight $e^{-|z|^m}$, $m > 0$. It is known that the Berezin transform is well-defined on the polynomials in z and \bar{z} . In this talk we focus on the polynomial fixed points and we show that these polynomials must be harmonic, except possibly for countably many $m \in (0, \infty)$. We also show that, in some particular cases, the fixed point polynomials are harmonic for all m .