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Real analytic expansion of spectral projection and extension of Hecke-Bochner identity

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In this article, we review the Weyl correspondence of bigraded spherical harmonics and use it to extend the Hecke-Bochner identities for the spectral projections $f\times\varphi_k^{n-1}\$ for function $f\times\c^n)\$ with $1\eq p\eq\times\$ We prove that spheres are sets of injectivity for the twisted spherical means with real analytic weight. Then, we derive a real analytic expansion for the spectral projections $f\times\varphi_k^{n-1}\$ for function $f\times\c^n)\$ for function $f\times\c^n)\$

- Comments: 18 pages, accepted for publication in Israel J. Math. An application of expansion of the spectral projections has been observed as Proposition 4.4
- Subjects:Functional Analysis (math.FA)Cite as:arXiv:1204.3076 [math.FA]
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