



Harmonic analysis

 L^p harmonic analysis for differential-reflection operatorsSalem Ben Said^a, Asma Boussen^b, Mohamed Sifi^b^a Institut Élie Cartan de Lorraine, Université de Lorraine, BP 239, 54506 Vandœuvre-lès-Nancy, France^b Université de Bani H Mawit, Faculté des sciences de Bani, MFT 8531 Laboratoire d'analyse mathématiques et applications, 2082 Bani, Tunisie

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ABSTRACT

We introduce and study differential-reflection operators $A_{A,x}$ acting on smooth functions defined on $\mathbb{R}$. Here A is a Sturm–Liouville function with additional hypotheses and $x \in \mathbb{R}$. For special pairs (A, x) , we recover Dunkl's, Heckman's and Cherednik's operators (in one dimension).

As, by construction, the operators $A_{A,x}$ are mixture of d/dx and reflection operators, we prove the existence of an operator $V_{A,x}$ so that $A_{A,x} \circ V_{A,x} = V_{A,x} \circ d/dx$. The positivity of the intertwining operator $V_{A,x}$ is also established.

Via the eigenfunctions of $A_{A,x}$, we introduce a generalized Fourier transform $\mathcal{F}_{A,x}$. For $-1 \leq x \leq 1$ and $0 < p \leq \frac{2}{1+\sqrt{1-x^2}}$, we develop an L^p -Fourier analysis for $\mathcal{F}_{A,x}$, and then we prove an L^p -Schwartz space isomorphism theorem for $\mathcal{F}_{A,x}$.

Details of this paper will be given in other articles [3] and [4].

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R É S U M É

Nous introduisons et étudions des opérateurs différentiels aux différences $A_{A,x}$ agissant sur les fonctions régulières définies sur $\mathbb{R}$. Ici A est une fonction de Sturm–Liouville avec des hypothèses supplémentaires et $x \in \mathbb{R}$. Pour des cas particuliers de paires (A, x) , nous obtenons les opérateurs de Dunkl, de Heckman et de Cherednik (unidimensionnels).

Comme, par construction, les opérateurs $A_{A,x}$ entremêlent d/dx et des opérateurs de réflexion, nous prouvons qu'il existe un opérateur $V_{A,x}$ tel que $A_{A,x} \circ V_{A,x} = V_{A,x} \circ d/dx$. La positivité de l'opérateur $V_{A,x}$ a été établie.

À l'aide des fonctions propres de $A_{A,x}$, nous introduisons une transformée de Fourier généralisée $\mathcal{F}_{A,x}$. Nous développons de l'analyse de Fourier de type L^p pour $\mathcal{F}_{A,x}$ quand $-1 \leq x \leq 1$ et $0 < p \leq \frac{2}{1+\sqrt{1-x^2}}$, et nous caractérisons l'image des p -espaces de Schwartz par $\mathcal{F}_{A,x}$.

Les détails seront publiés dans d'autres articles [3] et [4].

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