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| | | | authors | <ul style="list-style-type: none">Van Hoang Nguyen | NOT DUPLICATES | 729 |
| | authors | <ul style="list-style-type: none">Nguyen, V. | title | The sharp Sobolev type inequalities in the Lorentz--Sobolev spaces in the hyperbolic spaces | | |
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| | urls | <ul style="list-style-type: none">https://api.elsevier.com/content/article/PII:S0022247X20303590?httpAccept=text/xmlhttps://api.elsevier.com/content/article/PII:S0022247X20303590?httpAccept=text/plainhttp://dx.doi.org/10.1016/j.jmaa.2020.124197 | id | id6111209584354708703 | | |
| | id | id4439011960767692953 | abstract | Let $W^{1L^{\{p,q\}}(\mathbb{H}^n)}$, $1\leq q,p<\infty$ denote the Lorentz-Sobolev spaces of order one in the hyperbolic spaces \mathbb{H}^n . Our aim in this paper is three-fold. First of all, we establish a sharp Poincar'e inequality in $W^{1L^{\{p,q\}}(\mathbb{H}^n)}$ with $1\leq q\leq p$ which generalizes the result in \cite{NgoNguyenAMV} to the setting of Lorentz-Sobolev spaces. Second, we prove several sharp Poincar'e-Sobolev type inequalities in $W^{1L^{\{p,q\}}(\mathbb{H}^n)}$ with $1\leq q\leq p<n$ which generalize the results in \cite{NguyenPS2018} to the setting of Lorentz-Sobolev spaces. Finally, we provide the improved Moser-Trudinger type inequalities in $W^{1L^{\{n,q\}}(\mathbb{H}^n)}$ in the critical case $p=n$ with $1\leq q\leq n$ which generalize the results in \cite{NguyenMT2018} and improve the results in \cite{YangLi2019}. In the proof of the main results, we shall prove a P'olya--Szeg' type principle in $W^{1L^{\{p,q\}}(\mathbb{H}^n)}$ with $1\leq q\leq p$ which maybe is of independent interest. | | |
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