On Hardy inequality in variable Lebesgue spaces with mixed norm

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In this talk, In this paper a two-weight boundedness of multidimensional Hardy operator and its dual operator acting from one weighted variable Lebesgue spaces with mixed norm into other weighted variable Lebesgue spaces with mixed norm spaces is proved. In particular, a new type two-weight criterion for multidimensional Hardy operator is obtained.

Keywords: Two-dimensional Hardy operator, weight functions, variable Lebesgue spaces with mixed norm.

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