FRACTIONAL MAGNETIC SOBOLEV INEQUALITIES WITH TWO VARIABLES

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Abstract. A fractional magnetic Sobolev inequality with two variables and critical exponents is considered in this paper, and the best constant in the inequality is determined. As an application of the inequality, we establish an existence result for the ground state solutions to a fractional magnetic critical system.


Keywords and phrases: Ground state, magnetic field, fractional Sobolev critical exponent.

REFERENCES