Regularity for double phase functionals with two modulating coefficients

Bogi Kim[1] and Jehan Oh [1]

1) *Department of Mathematics, Kyungpook National University, Daegu 41566, KOREA*

Corresponding Author: Jehan Oh, jehan.oh@knu.ac.kr

ABSTRACT

In this presentation, we deal with local minimizers of functionals with non-standard growth conditions and non-uniform ellipticity properties. In particular, we first establish that the local minimizer is Hölder continuous and that when given additional conditions, its gradient is also Hölder continuous.

REFERENCES

1. B. Kim and J. Oh, *Regularity for Double Phase Functionals with Two Modulating Coefficients,* The Journal of Geometric Analysis, 34(5), 1-51, 2024.