

Title Regularity for a borderline case of double phase problems with measure data

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Abstract : In this talk, we consider a borderline case of double phase problems when the right-hand side is a signed Radon measure with finite total mass. We discuss an integrability result for the gradient of a solution in terms of the first-order maximal function of the associated measure. We also introduce a notion of a solution that guarantees such a regularity result. This is joint work with Pilsoo Shin.