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ON GENERALIZED DIVERGENCE AND LAPLACE OPERATORS AS A MATTER OF DIVISION OF DISTRIBUTIONS

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ABSTRACT. Starting from the approach to the Laplacian with respect to coupling measures and undirected weighted graphs, we provide a setting for a general point of view for a Kirchhoff type divergence and a Laplace operators built on the trivial gradient of order zero f(y) - f(x). We consider some particular classical and new instances of this approach.