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A non-Euclidean forward-reflected-backward method with inertial effects for nonconvex minimization

We propose a non-Euclidean version of the Malitsky-Tam forward-reflected-backward method with inertial effects for monotone inclusion problems to solve nonconvex minimization problems. The convergence is guaranteed by the generalized concave Kurdyka-Łojasiewicz (KL) property of a quadratic regularization of the objective, under which the method has finite length property and converges to a stationary point globally.