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Some evolution equations under the List's flow and their applications

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Abstract: In this paper, we consider some evolution equations of generalized Ricci curvature and generalized scalar curvature under the List's flow. As applications, we obtain L^2 -estimates for generalized scalar curvature and the first variational formulae for non-negative eigenvalues with respect to the Laplacian.

Keywords: List's flow; eigenvalue; scalar curvature

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