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Title:	On the stability of L_p -norms of Riemannian curvature at rank one symmetric spaces
Authors:	Maity, Soma (/jspui/browse?type=author&value=Maity%2C+Soma)
Keywords:	Property Riemannian Obtain
Issue Date:	2019
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Citation:	Manuscripta Mathematica, 159(1),pp.183-202.
Abstract:	We study stability and local minimizing property of L_p -norms of Riemannian curvature tensor denoted by $\square\square$ by variational methods. We compute the Hessian of $\square\square$ at compact rank 1 symmetric spaces and prove that they are stable for $\square\square$ for certain values of $p \geq 2$. A similar result also holds for compact quotients of rank 1 symmetric spaces of non-compact type. Consequently, we obtain stability of L_{n^2} -norm of Weyl curvature at these metrics using results from Gursky and Viaclovsky (J Reine Angew Math 400:37–91, 2015).
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