REMARKS ON UHLENBECK’S PERTURBATION METHOD

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Abstract. Let $f$ be a $C^2$-function on a $C^2$-Finsler manifold. Perturb it to $f' = f + \varepsilon g$, $\varepsilon > 0$, $g > 0$ and assume that $f''$ satisfies the Palais-Smale condition, for all $\varepsilon > 0$. In [6], K. Uhlenbeck found, under suitable hypotheses, a method to extend the critical point theory from $f''$ to $f$. In this paper we give a variant of this perturbation method.

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REFERENCES


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