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Manifolds

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Riemannian results to weakly symmetric pseudo-Riemannian spaces.

**Pseudo-Riemannian Weakly Symmetric** 

There is a well developed theory of weakly symmetric Riemannian manifolds. Here it is shown that

completeness, the geodesic orbit property, weak symmetries, and the structure of the nilradical of the

several results in the Riemannian case are also valid for weakly symmetric pseudo-Riemannian manifolds, but some require additional hypotheses. The topics discussed are homogeneity, geodesic

isometry group. Also, we give a number of examples of weakly symmetric pseudo-Riemannian manifolds, some mirroring the Riemannian case and some indicating the problems in extending

## Submission history

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