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## Weyl-Schouten Theorem for symmetric spaces

## Yuri Nikolayevsky

(Submitted on 21 Jul 2011 (v1), last revised 22 Feb 2012 (this version, v2))

Let N be a symmetric space of dimension n > 5 whose de Rham decomposition contains no factors of constant curvature and let W be the Weyl tensor of N at some point. We prove that a Riemannian manifold whose Weyl tensor at every point is a positive multiple of W is conformally equivalent to N (the case N = R^n is the Weyl-Schouten Theorem).

Comments:Changed some proofs; corrected typosSubjects:Differential Geometry (math.DG)MSC classes:53A30, 53C35, 53B20Cite as:arXiv:1107.4260v2 [math.DG]

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