

Institut für Geometrie

Vortrag

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**Some remarks on Clifford's chain of theorems
in affine CK-planes**

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In [4], certain new properties of circles related to the analogues of the Clifford's chain of theorems ([1], p. 262) are presented in affine CK-planes. After the first analogue was made, the authors conclude that unfortunately the next step of the Clifford's chain cannot be extended to the affine CK-planes. In our work, by presenting and proving all analogues of Clifford's chain of theorems in the affine CK-plane, we prove the contrary. We furthermore establish a relation between Clifford's theorems and Miquel's theorem, based on [2] and [3]. This is joint work with N. Kovačević

- [1] H. S. M. Coxeter: *Introduction to Geometry*, Wiley 1963.
- [2] E. Jurkin: Automorphic Inversion and Circular Quartics in Isotropic Plane, *KoG* 12 (2008), 19-26.
- [3] N. Kovačević, V. Szilovicska, Inversion in Minkowskischer Geometrie. *Mathematica Pannonica* (2010), in print.
- [4] H. Martini, M. Spirova: Circle geometry in affine Cayley-Klein planes, *Period. Math. Hungarica*, 57/2 (2008), 197-206

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