

## Werk

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Using the results of the present paper and of [3], [4] we can easily obtain:

**Corollary 1.** *If in the desarguesian projective plane there exists a fully pascalian 6-arc then this plane has a finite subplane of order 4.*

**Corollary 2.** *In every desarguesian projective plane, a fully pascalian 6-arc can be completed to at least one (H-T)-configuration.*

In [4] and in the present paper we have examined certain configurations mentioned in [2] or [3] as satisfied in the finite plane of order 4. We have analysed the classes of projective planes corresponding to these configurations. The configuration (H-T) is correlated with a large class of projective planes; the proposition (P\*) characterizes completely the finite plane of order 4.

#### References

- [1] *P. Dembowski*: Finite Geometries, Berlin—Heidelberg—New York, 1968.
- [2] *W. L. Edge*: Some implications of the geometry of the 21-point plane, *Math. Zeitschrift*, 87 (1965), 348—362.
- [3] *K. Havlíček, J. Tietze*: Zur Geometrie der endlichen Ebene der Ordnung  $n = 4$ , *Czechoslovak Math. J.*, 21 (96), 1971, 157—164.
- [4] *A. Lewandowski, H. Makowiecka*: Some remarks on Havlíček-Tietze configuration. *Čas. pěst. mat.* 104 (1979), 180—184.

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