

## Werk

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**Jahr:** 1976

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and

$$P_{ij}^1 = \begin{pmatrix} 3 & 2 \\ 2 & 1 \end{pmatrix}, \quad P_{ij}^2 = \begin{pmatrix} 4 & 2 \\ 2 & 0 \end{pmatrix}.$$

The PBIB design obtained from the configuration of mutually perspective triangles is a simple, triangular PBIB design.

The dual of this design is a three associate class triangular PBIB design with the parameters:

$$v = {}^n c_3, \quad b = {}^n c_2, \quad r = 3, \quad k = n - 2,$$

$$n_1 = 3(n - 3), \quad n_2 = 3 {}^{n-3} c_2, \quad n_3 = {}^{n-3} c_3, \quad \lambda_1 = 1, \quad \lambda_2 = 0 = \lambda_3,$$

$$P'_{ij} = \begin{bmatrix} n - 2, & 2(n - 4), & 0 \\ 2(n - 4), & (n - 4)^2, & {}^{n-4} c_2 \\ 0, & {}^{n-4} c_2, & {}^{n-4} c_3 \end{bmatrix}, \quad P^2_{ij} = \begin{bmatrix} 4, & 2(n - 4), & n - 5 \\ 2(n - 4), & \frac{1}{2}(n + 2)(n - 5), & 2 {}^{n-5} c_2 \\ n - 5, & 2 {}^{n-5} c_2, & {}^{n-5} c_3 \end{bmatrix}$$

$$P^3_{ij} = \begin{bmatrix} 0, & 9, & 3(n - 6) \\ 9, & 9(n - 6), & 3 {}^{n-6} c_2 \\ 3(n - 6), & 3({}^{n-6} c_2), & {}^{n-6} c_3 \end{bmatrix}.$$

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#### References

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- [2] K. Sinha: 24 Self-inscribed decagons in Desargues Configuration  $10_3$ , Čas. pěst. mat. 101 (1976), 232-233.

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