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Perfect quadratic forms and problems of arithmetic minima of quadratic forms. (Russian)

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Mat. Issled. 103, 22-42 (1988).

The paper introduces the notion of perfect indefinite quadratic form (PIQF). To each PIQF there correspond some convex polyhedra which are connected with the representations of the minimum of the given perfect form. Binary PIQF with two common representations of the minimum are discussed in the paper.

Reviewer: [G.Gogishvili](#)

MSC:

[11H55](#) Quadratic forms (reduction theory, extreme forms, etc.)

[11H06](#) Lattices and convex bodies (number-theoretic aspects)

Cited in 1 Review

Keywords:

[perfect indefinite quadratic form](#); [convex polyhedra](#); [representations](#); [minimum](#); [perfect form](#)

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