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On classification of arithmetic hyperbolic reflection groups

Érnest Borisovich Vinberg obtained fundamental results for arithmetic hyperbolic reflection groups. Let me mention his criterion for arithmeticity of hyperbolic reflection groups (1967), and absence of arithmetic hyperbolic reflection groups in dimensions greater than 29 (1981).

Recently, it was finally shown that there exists an effective finite classification of arithmetic hyperbolic reflection groups in all dimensions together. I hope to outline these results.