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Relation between sound field properties and architectural design in Serbian churches

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Serbian Orthodox churches have distinctive architecture due to several types of architectural design. It is characteristic of this part of Europe, with numerous elements that distinguish them from other worship buildings. Impulse response structure by several objective acoustical parameters was analyzed in two experiments: in churches with a similar architectural design but different volume and in churches of similar volume but different design. Our approach focussed on the influence of specific architectural details (high and narrow dome, nartex and iconostasis) on the structure and properties of sound fields in Serbian Orthodox churches.