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Investigation of short-term roof structure deformations using geodetic methods

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The article contains the results of the measurements of the Warsaw University of Technology Main Hall roof deformations under various conditions. These results were obtained automatically using precise motorized tacheometers TDA5005 and TCRP2002. In this work we compare the vertical components obtained with tacheometric measurements to the results of geometric leveling for chosen control points. The aim of this research was the assessment of the usefulness of the proposed monitoring method to determine structural deformations.