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Determination of the anode wire position in a straw of the new type using visible light

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Microscope investigations of new-type thin-wall tubes (straws) produced for NA62 drift chambers revealed that they are semitransparent and allow anode wires to be observed under illumination by visible light. Positions of wires in straws and thus the anode spacing in the drift chamber can be directly determined with a high accuracy ($\sim 10 \mu$) using a microscope mounted on a precision optical bench. These data are important for decreasing errors during reconstruction of charged particle track coordinates in the drift chambers. The proposed method is much simpler than the X-ray or radioactive source methods.

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