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On the shape stability of angular distributions of the channeled protons.

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We have devised an experiment to reveal structures in angular distributions of axially channeled protons that are the most resistant to distortions caused by the multiple scattering with crystal electrons that, in the limiting process, erase all structures and produce a featureless Gaussian distribution. The origin of the observed shape stability was linked to the shape constancy of certain closed curves in the scattering angle plane, quantified by the distribution of the number of times each curve travels around the coordinate origin.

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