



Contribution ID: 171

Type: **Poster**

## Dynamical diffraction of thermal neutrons under influence of temperature gradient

*Tuesday, 27 September 2016 18:40 (0 minutes)*

The diffraction of thermal neutrons on x-cut quartz crystal for the symmetric Laue geometry under the action of a temperature gradient perpendicular to the reflecting atomic planes ( $10\bar{1}1$ ) was theoretically considered. The controllability of a neutron beam in space and time is analyzed and its parameters are estimated (relative maximum intensity, the angular and energy distribution of obtained beams etc.).

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**Session Classification:** PS2: Poster Session