

Anisotropic response of ZnWO₄ crystal for neutrons

ZnWO₄ crystal was reported that the scintillation light output has the direction dependence on the crystal orientation. Thus we are developing a direction sensitive dark matter detector utilizing the anisotropic response of ZnWO₄ crystal.

In this talk, we will present results of the measurement of the quenching factor and anisotropic response of the ZnWO₄ crystal for mono-energetic neutron source provided by the National Institute of Advanced Industrial Science and Technology, in Japan.

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