

Universal cryogenic pelletized moderator for research neutron sources of any power and intensity

Maksim Bulavin*

Joint Institute for Nuclear Research, Dubna, Russia

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For the first time, the author proposed the concept of a new direction in the field of cold (cryogenic) neutron moderators for research neutron sources of low, medium and high power and intensity, which is based on the use of a universal cryogenic pelletized neutron moderator based on hydrocarbons. It is shown that the successful development of fundamentally new methods, installations, instruments and devices in the field of this direction will make it possible to create high-intensity sources of cold neutrons based on any research neutron source.