

**K215-011**

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## High-pressure material sciences of ices and expectations for the pulsed neutron source

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Neutron is a complementary probe to x-ray for material sciences at high pressure, especially for hydrogen compounds for which x-ray is not powerful. Thus it is the most desirable probe to analyze the property of ices at high pressure. A spallation neutron source of new generation is now being constructed in Tokai, Ibaragi Pref. as a part of the J-PARC project. Examples of scientific problems on ice sciences at high pressure are proposed, which will be newly revealed with this powerful neutron source.