

Intelligent neutron guide re-alignment system

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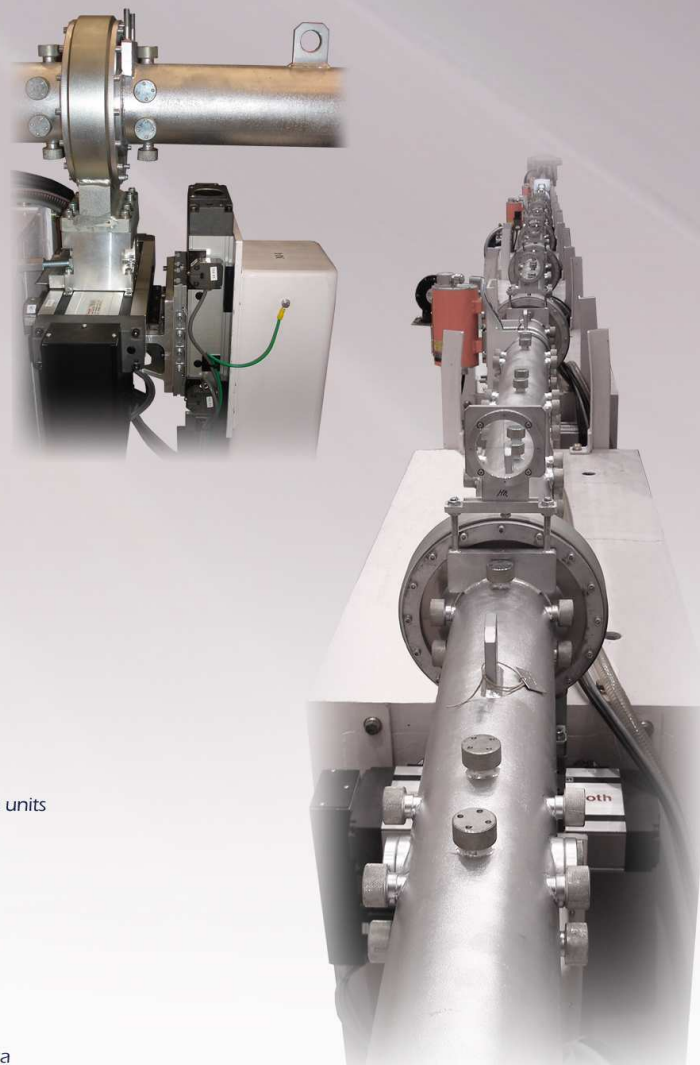
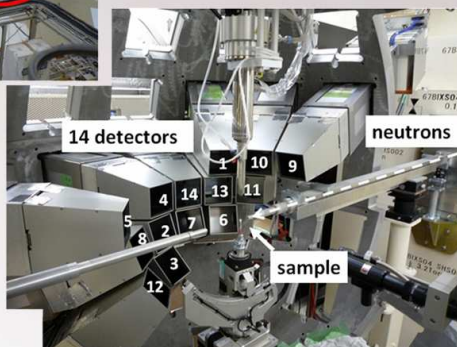
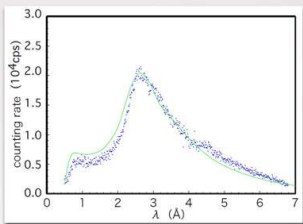
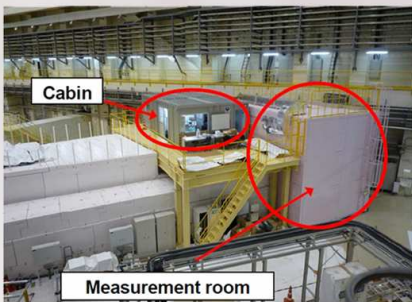
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Main Features

- ideal for sites on moving ground
- flexible connections, one point support system
- simple, fast re-alignment
- half or full automatic
- in-situ optimization of guide alignment
- easy solution for correction of misalignment
- internationally patented system



**Installed system: J-Parc, BL03
(Ibaraki University) Protein diffractometer**



5+ 25m long guide system with 15pcs complete y-z remote controlled high-resolution translation units

Repeatable positioning accuracy on both directions less than 1 μ m!

First day experiment in May 2008. ³He gas counter was used at the sample position,

40m from a coupled moderator. Slit size of natural Li was 2mm in diameter.

The wavelength dependence in counting rates were done.

The power of proton was 0.03kW (30W; J-PARC objective power is 1MW (1000kW) in 3-4 years)..

Acknowledgement to BL03 staff: Prof.Niimura, Dr. Kusaka, Dr. Hosoya, Dr. Kurihara and Dr. Ohhara