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Construction of high pressure dedicated beamline at J-PARC

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J-PARC (Japan Proton Accelerator Research Complex) started its operation in 2008, and its Materials and Life Science Facility (MLF) opened its public use in December. High flux neutron provided in MLF will definitely be a powerful tool for earth and planetary science. Preliminary high pressure experiments have already started by bringing high pressure devices at the conventional neutron powder beamline.

Our proposal submitted to MEXT Grant-in-Aid for New Scientific Area Research, entitled Earth science based on the high pressure and high temperature neutron experiment: project leader Takehiko Yagi, was accepted in 2008, and the construction of high pressure dedicated beamline at J-PARC has been approved. Its conceptual design and construction schedule will be introduced.