

# NewSUBARU

The NewSUBARU synchrotron light facility is operated by the Laboratory of Advanced Science and Technology for Industry (LASTI), University of Hyogo. NewSUBARU celebrated its 15th anniversary of the start of its use in 2000. This facility consists of an electron storage ring and nine beamlines.

(1) Upgraded beamlines were tuned and tested for advanced studies and industrial application. For example, a renewed spectrometer in the industrial analysis beamline BL05 started to operate for industrial use, a micro focus mirror system was tested at beamline BL07 and a new large-size mirror reflection meter started use in BL10.

(2) The fabrication of a lab-on-a-chip device using polytetrafluoroethylene (PTFE) was achieved using the nano-micro system beamline BL02.

(3) Successful data-taking, using a polarized photon beam at the BL01 laser Compton scattering gamma-ray beamline was completed as part of international collaboration experiments. A time projection chamber (TPC) achieved the measurement of polarization in  $\gamma$ -ray astronomy with excellent angular precision and sensitivity in the 1-70 MeV energy range.

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