

## Present status of the electron storage ring TERAS of AIST

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Present status and the recent research activities using TERAS, an electron storage ring dedicated for the synchrotron light source of AIST, have been briefly summarized. TERAS is operated at 300 MeV in injection mode, and ramped up to 800 MeV in operation mode. There have been several minor modifications since it has been built in 1981.

Figure 1 schematically shows a plain view of TERAS. The circumference is about 10 m. There are about ten beamlines in operation, currently. Figure 2 shows a beta x-, y- and dispersion functions of TERAS calculated for a single cell. The periodicity is four. The synchrotron radiation spectrum operated in 800 MeV is shown in Fig. 3. The critical energy is 490 eV.

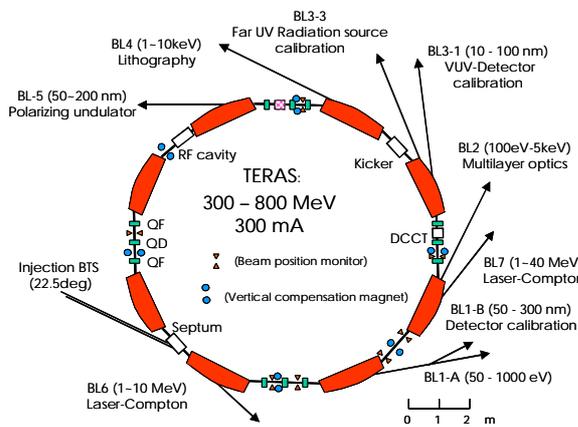


Fig. 1 Plain view of TERAS and the beamlines.

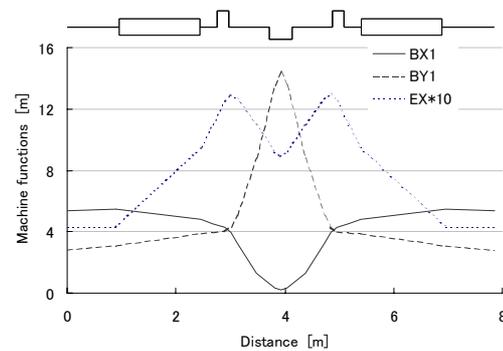


Fig. 2 Machine function of TERAS

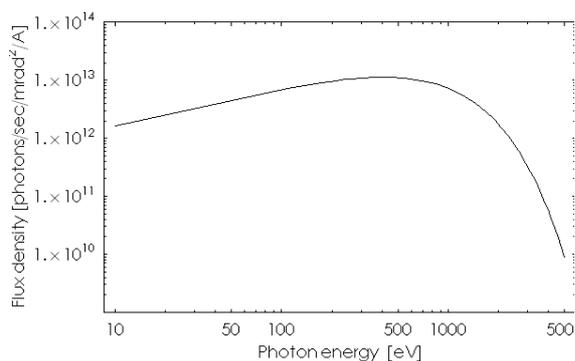


Fig. 3 SR spectrum of TERAS.