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Construction and alignment of test half-cell of SPring-8-II

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SPring-8 upgrade plan (SPring-8-II) has been discussed and examined to realize an ultra-low emittance storage ring with two boundary conditions to be cleared; high alignment precisions and 10 months of short replacing period. Comprehensive system and scenario of both installation and alignment have been designed for these above conditions. Half-cell with actual components has been assembled and constructed at experimental hall in SPring-8 in this year. We present the alignment scenario and an alignment system for girders and magnet supports. Also, an alignment procedure and effects of girder transportation with magnets are estimated and discussed.

Primary author: Dr KIMURA, Hiroaki (JASRI/RIKEN)

Co-authors: Dr ZHANG, Chao (Japan Synchrotron Radiation Research Institute(SPring-8)); Dr FUKAMI, Kenji (JASRI/RIKEN); Mr KAWASE, Morihiro (Japan Synchrotron Radiation Research Institute(SPring-8)); Dr WATANABE, Norihiro (JASRI/SPring-8); Mr AZUMI, Noriyoshi (JASRI/RIKEN); Dr MATSUI, Sakuo (RIKEN); Dr TANIUCHI, Tsutomu (Japan Synchrotron Radiation Research Institute(SPring-8)); Dr AOKI, Tsuyoshi (Japan Synchrotron Radiation Research Institute(SPring-8)); Dr OKAYASU, Yuichi (Japan Synchrotron Radiation Research Institute (SPring-8))

Presenter: Dr KIMURA, Hiroaki (JASRI/RIKEN)

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