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Magnetic Field Measurement and Analysis of the CSNS/RCS Quadrupole Magnets

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The China Spallation Neutron Source (CSNS)/rapid-cycling synchrotron (RCS) quadrupole magnets excited by both DC current and 25Hz AC biased DC current were tested and measured in the past two years. All the magnets had been installed in the tunnel by the end of December, 2015. The challenges of the field measurements included the measurement repeatability of the DC field and the time harmonic measurement of the DC+AC field. The paper will summarize the results of the DC field measurement and the DC+AC field measurement, the key techniques of the rotating coil fabrication, and the measurement stability for the CSNS/RCS quadrupole magnets.

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