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FEL Magnetic Measurements At SLAC

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The Linac Coherent Light Source at SLAC provided many magnetic measurement challenges. The magnetic center of the quadrupoles was required to be stable as the excitation current was changed for beam based alignment. A rotating coil system was used to measure magnetic center stability. The quadrupoles had to be accurately aligned to undulators and their fiducialization was done with a vibrating wire system. Finally, accurate undulator measurements and undulator fiducialization had to be performed. The measurement methods we used will be the primary topic of my talk.

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