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Experience report with the Alignment Diagnostic System

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Since 2009 an Alignment Diagnostic System (ADS) has been operating at the undulator of the new Linac Coherent Light Source at SLAC National Laboratory. The undulator spans a distance of 132 meters and is structured into 33 segments. Each segment is equipped with four hydrostatic leveling sensors and three wire position monitors. This report describes the set up and reflects long time experience gained with ADS.

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