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Rotating Torsion Balance Tests of the Equivalence Principle TODD WAGNER, STEPHAN SCHLAMMINGER, JENS GUNDLACH, University of Washington — We present current results from tests of the equivalence principle using a rotating torsion balance. Test bodies made from different materials are arranged in a composition dipole and installed on a torsion pendulum. The torsion pendulum is mounted on a turntable that rotates with constant angular velocity. Test body pairs of Be-Ti, Be-Al and test bodies that mimic the earth's and moon's compositions were used. Results are presented with limits using the earth and astrophysical objects as sources for a hypothetical equivalence principle violation.

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