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## Status of atomic parity violations experiments

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Observing atomic parity violation in atomic systems provides a unique possibility for testing the predictions of the Standard Model at low momentum transfer. The nuclear spin independent part of the weak interactions permits the extraction of the weak mixing angle or Weinberg angle. A sensitivity beyond the most sensitive determination of this parameter in atomic system, i.e. in a cesium atomic beam, requires well chosen atomic systems, such as Ba<sup>+</sup> and Ra<sup>+</sup> ions or atomic Fr, as well as an excellent understanding of the atomic spectra of these systems. The status of the experimental and theoretical efforts which promise a fivefold improvement over the current best measurement in Cs will be discussed.

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