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## Testing the Standard Model in beta-decay: status and prospects

*Thursday, October 20, 2016 9:00 AM (30 minutes)*

Precise measurements of observables in beta decay allow testing the symmetries of the Standard Model or searching for physics beyond at the low-energy and high-intensity frontier. A non-exhaustive overview of this field will be presented based on selected state-of-the-art measurements using a variety of techniques.

With the precision of these measurements reaching the per mille level small Standard Model effects now have to be included as well. The understanding of some of these requires additional measurements be performed in order to maintain optimal sensitivity to weak interaction properties.

Finally, the prospects and future of this type of low-energy weak interaction studies in the era of the Large Hadron Collider will be briefly discussed as well.

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