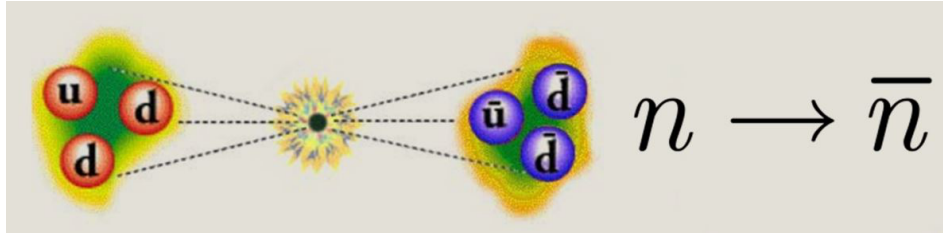


Theoretical Innovations for Future Experiments Regarding Baryon Number Violation, Part 1



Contribution ID: 28

Type: **Oral Presentation**

Some Recent Results on Models with $n - \bar{n}$ Oscillations

Monday, 3 August 2020 10:30 (30 minutes)

We discuss models that can feature $n - \bar{n}$ oscillations at observable levels. These are extra-dimensional theories with Standard-Model fermions propagating in the extra dimensions. Interestingly, while proton decay can be suppressed well below experimental limits in these models, $n - \bar{n}$ oscillations can occur at levels comparable to current limits. Thus, in these theories, $n - \bar{n}$ oscillations and the associated $\Delta B = -2$ dinucleon decays can be the dominant manifestation of baryon-number violation. Analyses are given within the context of a Standard-Model effective field theory and a theory involving a left-right symmetry group.

Contribution Title

Some Recent Results on Models with $n - \bar{n}$ Oscillations

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