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## Neutrino electromagnetic properties and neutrino oscillations

Electromagnetic properties of massive neutrinos [1] and their effects on neutrino oscillation phenomena are brought into focus. The searches for neutrino millicharges, charge radii and magnetic moments in astrophysics and laboratory measurements are outlined [2,3]. Prospects of probing these neutrino characteristics with JUNO are discussed.

[1] C. Giunti and A. Studenikin, *Neutrino electromagnetic interactions: A window to new physics*, Rev. Mod. Phys. **87**, 531 (2015).

[2] C. Giunti, K. A. Kouzakov, Y.-F. Li, A. V. Lokhov, A. I. Studenikin, and S. Zhou, *Electromagnetic neutrinos in laboratory experiments and astrophysics*, Ann. Phys. (Berlin) **528**, 198 (2016).

[3] K. A. Kouzakov and A. I. Studenikin, *Electromagnetic properties of massive neutrinos in low-energy elastic neutrino-electron scattering*, Phys. Rev. D **95**, 055013 (2017).

### Experimental Collaboration

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