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## Axions in the sky and on tables

In this talk, I will discuss several different ways to search for axion-like particles in the sky and on tables. I will briefly review recent discussions on the hierarchy problem and how it leads to a new insight for new physics search, especially in the context of axion-like particles. We then discuss several different ideas for terrestrial axion searches and astrophysical searches. As a concrete example, we discuss axion search through atomic/molecular spectroscopy and also through gravitational waves.

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