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Three-active neutrino oscillations, the global picture

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Neutrino oscillations are the leading mechanism that successfully explain the neutrino flavor transition observed at dedicated detectors from several sources of neutrinos like the Sun, from interactions in the atmosphere of the Earth, and neutrinos from artificial sources such as the ones produced in reactor and accelerator-based experiments. This wealth of data is well described by neutrino oscillations within the three-active neutrino framework. In this talk the current status of this framework will be reviewed. The current precision of the measured oscillation parameters and the “known unknowns” will also be discussed. This will serve as an introduction of the goals and challenges that the future neutrino program will have to face.

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