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## MINOS neutrino oscillation results

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The MINOS experiment finished data collection in April this year. We have made precision measurements of the oscillation parameters using both neutrino ( $10.7e20\text{pot}$ ) and anti-neutrino ( $3.3e20\text{pot}$ ) enhanced beams and with atmospheric neutrinos ( $37.9\text{ kt.y}$ ). The atmospheric neutrino sample can also be separated into neutrino and antineutrino samples with the magnetic field in the far detector. Updated results of measurements in the 23-mixing sector and the sub-dominant 13-mixing sector will be presented including combined fits from beam and atmospheric data to the separate neutrino and antineutrino mixing parameters. The MINOS+ experiment (the MINOS detector in the ME NOVA beam) will commence running in April 2013.

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