



# DESY Seminar

22 May 2007, 17:00, DESY Hörsaal

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## *The MINOS Experiment, Recent Results and Future Prospects*

MINOS is a long baseline neutrino oscillation experiment designed to perform precision measurements of neutrino oscillations using muon neutrinos. The experiment uses an intense neutrino beam from the Main Injector at Fermilab and two large, magnetised neutrino detectors: a 1kt Near Detector at Fermilab and a 5.4kt Far Detector at a distance of 735km in the Soudan Mine in Minnesota. Results from the first year of beam running showed a substantial disappearance of muon type neutrinos and produced the first MINOS measurement of oscillation parameters. MINOS has continued to accumulate beam data and is currently nearing the end of its second run period. This talk describes the experiment and its performance, presents first results and discusses the physics reach and future prospects.

- Tea and cookies will be served at 16:45 in the lobby.
- After the seminar there is a chance for private discussions with the speaker over wine and pretzels also in the lobby.