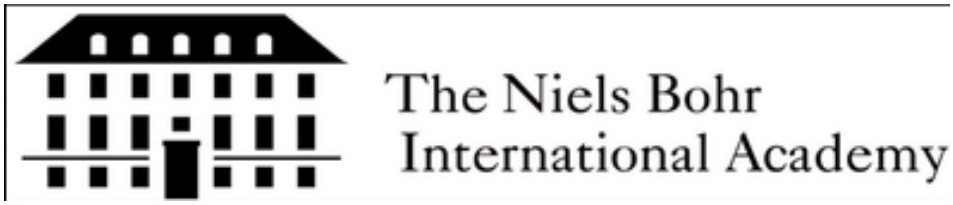

Contribution ID: **5** Type: **not specified**

ESSnuSB –The European Spallation Source Neutrino Super Beam

Thursday, 26 June 2014 16:00 (20 minutes)

As is generally known today, neutrinos oscillate between possible eigenstates, but several parameters of this oscillation remain unknown. Recent results (from e.g. the T2K and MINOS experiments) favour larger values of theta_13 (the mixing angle between two mass eigenstates) than previously thought. This shifts the most favourable L/E range for oscillation detection from the first oscillation maximum to the second oscillation maximum.
The ESSnuSB (European Spallation Source Neutrino Super Beam) is a proposed facility for the study of the neutrino oscillation. It would be optimized for observations in the second oscillation maximum to yield discoveries on the CP violation in neutrino oscillations and on the mass hierarchy of the neutrinos.

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Session Classification: Problems Class/Student Talks