

## ESSnuSB detector performance

ESSnuSB is a design study for a high precision future experiment at ESS, which will measure CP violation in the lepton sector at the second neutrino oscillation maximum. The experiment is based on a neutrino superbeam and will feature both near and far detectors. This talk will report on the baseline configuration of the near and far detectors. The progress of design and simulation of the far Cherenkov detectors will be presented in more detail, focusing on the migration matrices and detector efficiencies for detecting relevant neutrino flavors.

### Working group

WG1

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**Session Classification:** Poster session NB: do not use Safari; use Firefox, Chrome or Edge