

## 4th Uppsala workshop on Particle Physics with Neutrino Telescopes (PPNT19)



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### Physics reach of the ESSnuSB project

*Monday, 7 October 2019 09:40 (25 minutes)*

The proposed ESSnuSB project intends to have a megaton water Cherenkov detector built and a neutrino beam sent from the ESS proton linac at the second oscillation maximum. In this talk I will discuss the physics reach of the oscillation program of the ESSnuSB, including the projected sensitivity to CP violation in the lepton sector as well as searches for new physics such as sterile neutrinos and non-standard neutrino interactions.

#### Summary

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