

Astroparticle Physics in Hyper-Kamiokande

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The Hyper-Kamiokande is a next generation water Cherenkov detector consisting of two tanks, each with 187 kton fiducial mass, to be built in a staged approach. The total fiducial mass will be nearly 20 times larger than the highly successful Super-Kamiokande while significantly improved photodetectors will be used with the same 40 % photocoverage. The resulting sensitivity improvements will particularly benefit astroparticle physics at low energies.

This talk will present its projected physics reach in the areas of supernova neutrinos, solar neutrinos and indirect dark matter searches, based on the current design report.

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