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## Status of anti-chain-implosion cover for 20inch PMT in Hyper-Kamiokande

Hyper-Kamiokande is a next generation water Cherenkov detector which has a fiducial volume of approximately 10 times larger than that of the on-going Super-Kamiokande detector.

In a deep water tank one of critical issue is prevention of chain implosion of large photosensors. If a glass bulb crashes under high pressure in deep water a rapid cracking run over the whole glass in very short time, a few ms. The shape of the bulb suddenly disappears and water rushes into the void and collisions consequently generate the shockwave.

Concept of the anti-chain-implosion cover of PMT is to control the water flow into the cover and prevent the generation of the shockwave. Flow of the water into the cover is moderated via inlets to avoid the hard collisions of water.

This presentation will focus on the current status of the development of the anti-chain-implosion cover for Hyper-Kamiokande.

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