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Multi-PMT Optical Module Designs for IceCube-Gen2

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IceCube-Gen2 is the planned next generation neutrino telescope at the South Pole incorporating a high-energy array for neutrino astronomy and a dense array (PINGU) aimed at the determination of the neutrino mass hierarchy. The contribution presents alternatives to IceCube-Gen2's single-PMT baseline design which are currently being developed. These designs feature up to 24 smaller photomultipliers or use glass and gel with enhanced UV transparency to increase the number of detected photons and provide additional information like directionality. Thereby, they have the potential to significantly enhance the performance of IceCube-Gen2.

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