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HUNT : An ultra-large-scale neutrino astronomy telescope

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In 2021, LHAASO observed a large number of PeV cosmic ray candidates in the Milky Way. We proposed to build a telescope with at least 30 times the sensitive volume of the IceCube detector, so as to observe those LHAASO sources. In order to realize this project, we innovatively put forward a photosensitive detector unit based on a photomultiplier tube with a maximum photosensitive area of 20 inches. We have already started the prototype work in Lake Baikal and South China Sea respectively. It is estimated that within three years, we will complete the R&D work of the project.

Author: CHEN, MINGJUN (Institute of High Energy Physics, Chinese Academy of Sciences)

Presenter: CHEN, MINGJUN (Institute of High Energy Physics, Chinese Academy of Sciences)

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