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KM3NeT Experience: a virtual reality adventure.

KM3NeT is the next generation neutrino telescope. Cherenkov light from neutrino-induced secondary charged particles will be detected by an array of digital optical modules (DOM). A group of 18 DOMs, distributed in space along two thin ropes, constitutes the essential part of a 750 meters tall detection unit (DU). It is very hard to visualize in mind such a structure, despite many graphical representations were done in the past. However, being two-dimensional, they do not provide the real perception of a complete deployed DU. For this reason we decided to create a virtual reality experience with the aim to provide a better awareness of our detector. Such an experience is also a formidable way to promote astroparticle physics to young students.
KM3NeT Experience is a virtual reality adventure developed using Unreal Engine 4. It is an immersive experience built to be played using virtual reality head mounted displays (HMDs) such as Oculus Rift, HTC vive, etc. The player will experience the descent in the abyss in first person seeing realistic marine creatures and being able to take a look to a KM3NeT detector unit at 3500 meters under the sea level.

Experimental Collaboration

KM3NeT

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