

# High-energy reconstruction of single and double cascades using the KM3NeT detector

## **What is this contribution about?**

This contribution is about the direction reconstruction of single and double cascade topologies in the KM3NeT detector.

## **Why is it relevant / interesting?**

A good angular resolution on cascade events offers encouraging opportunities for neutrino source discovery.

## **What have we done?**

We present new reconstruction algorithms that use the timing information in the direction reconstruction of cascades.

## **What is the result?**

The angular resolution for single cascades improves significantly and reaches sub-degree resolution. The angular resolution for double cascades drops below 1 degree for tau lengths larger than 25 meters.