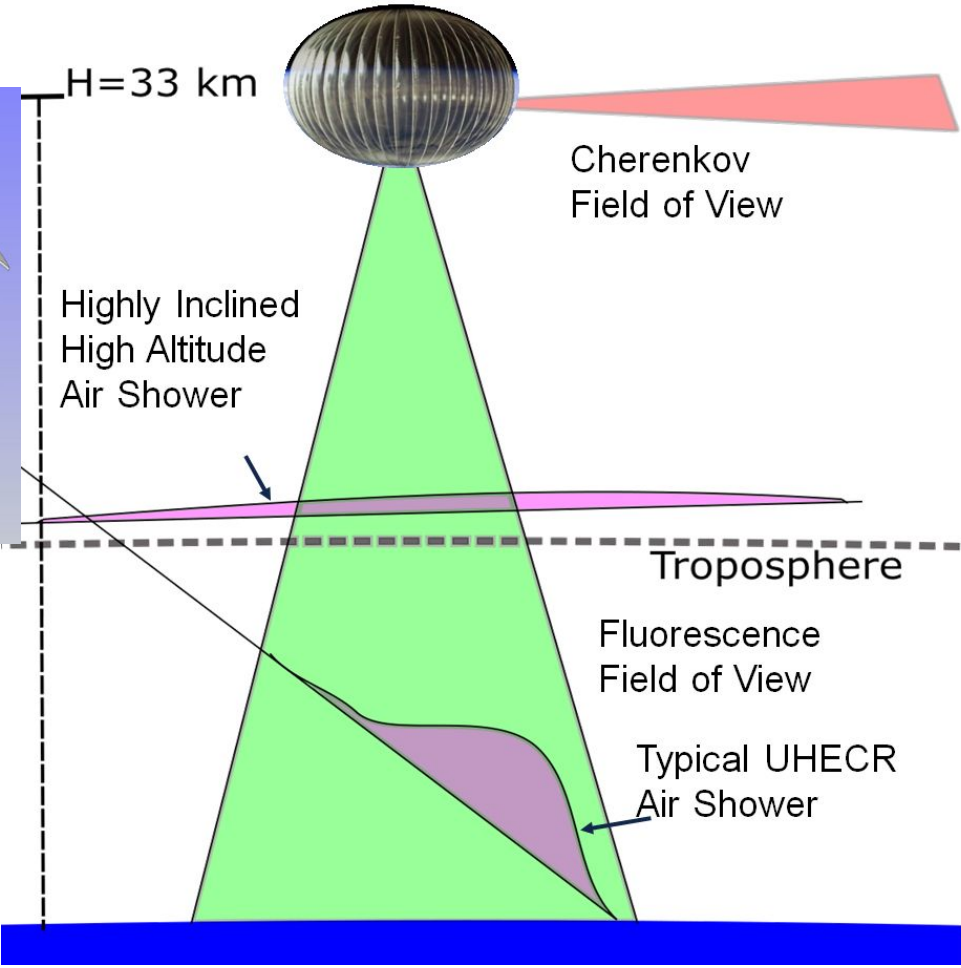
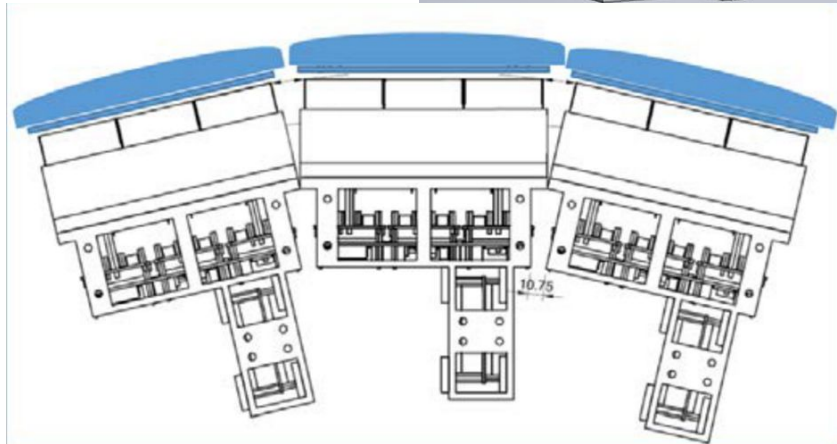
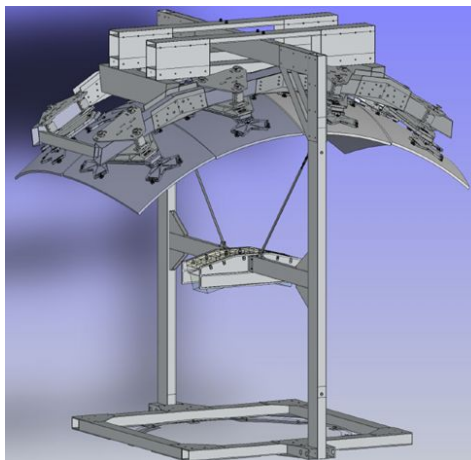
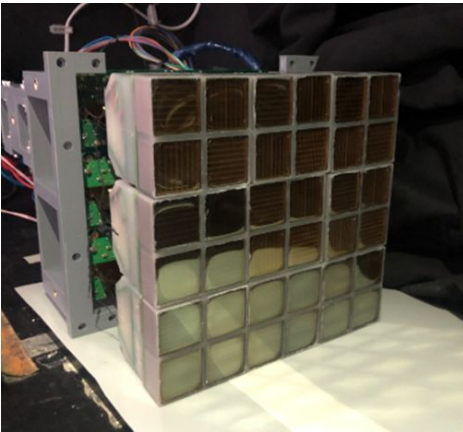


Expected Performance EUSO-SPB2 FT

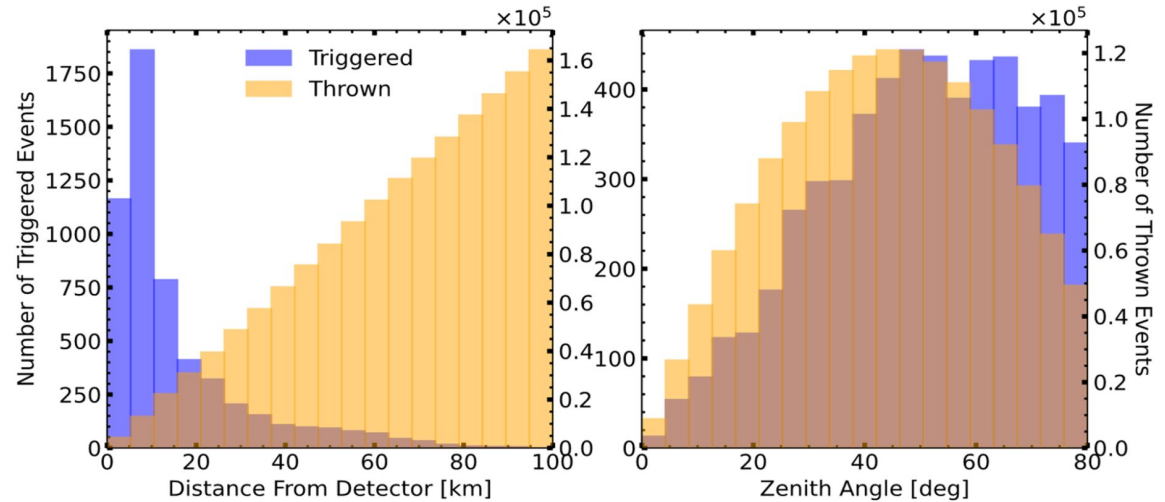
G.Filippatos

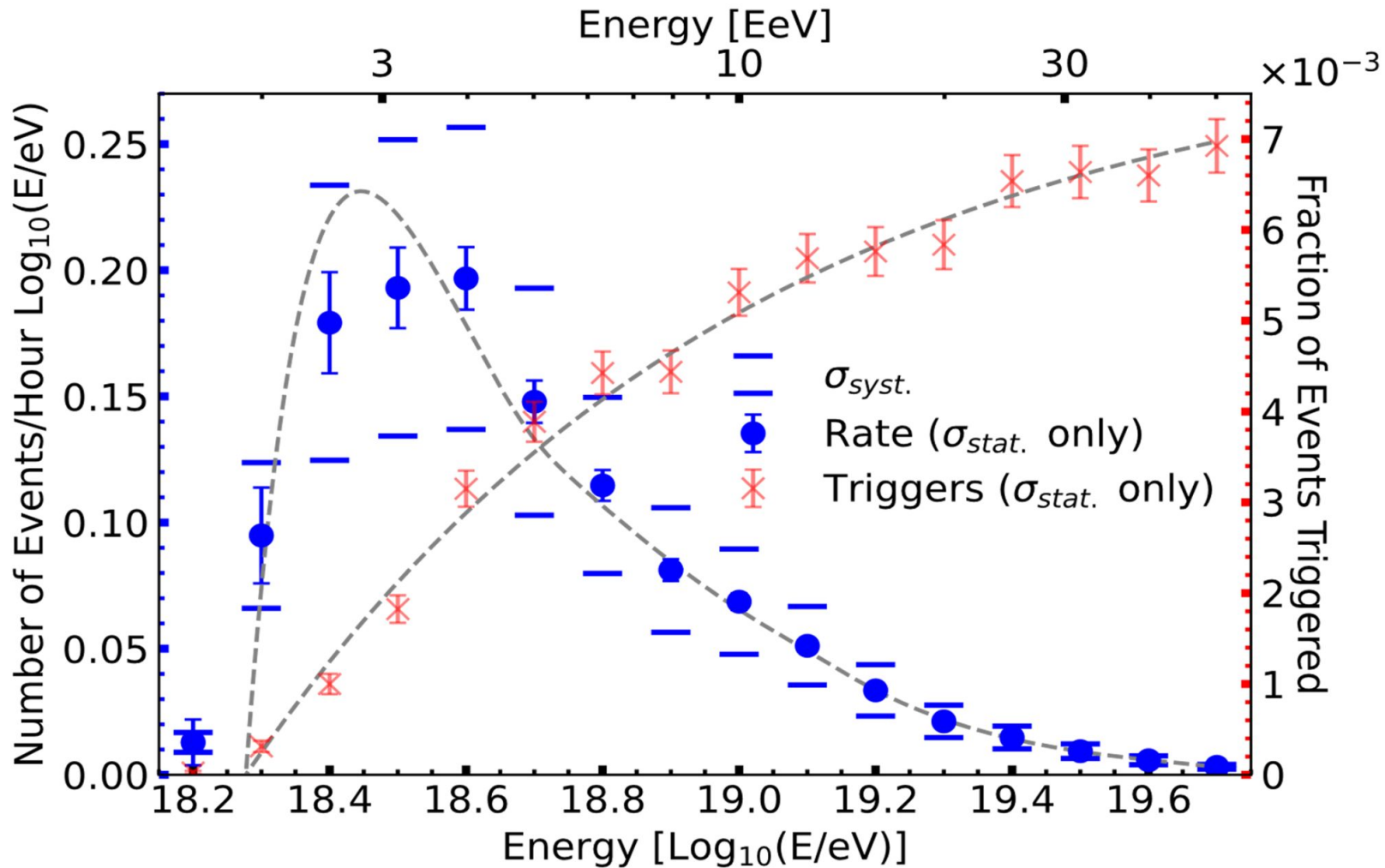
EUSO-SPB2



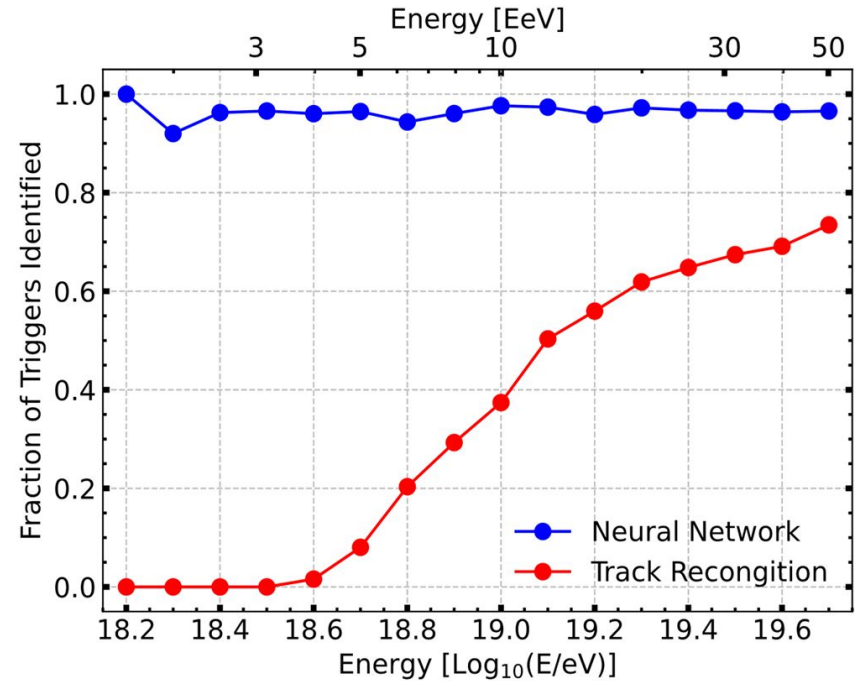
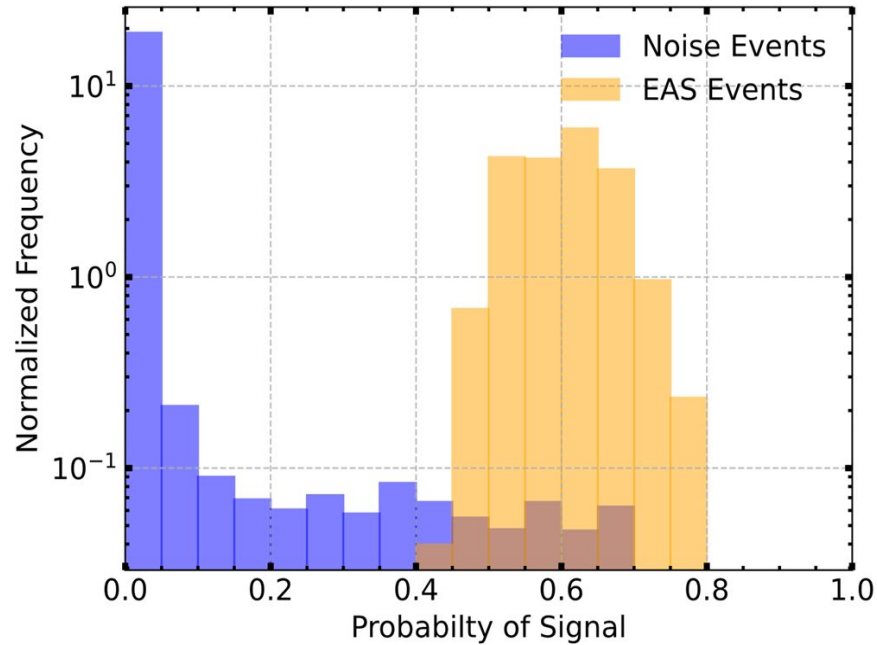
Event Rate Estimation

$$R(E_i) = \left(\frac{N_{\text{Trigger}}}{N_{\text{Thrown}}} \right) A \Omega \int_{E_i - \Delta E / 2}^{E_i + \Delta E / 2} J(E) dE$$





Event Classification



Executive Summary

We discuss the pre-flight estimations of the capabilities of the **EUSO-SPB2 Fluorescence Telescope**. Providing an important gauge as to the success of the instrument and allowing us to determine if we will be able to reach our science goals given the current design. Extensive simulations have been carried out in order to develop online software, and quantify their capabilities. We estimate roughly **one recorded extensive air shower every 8 hours of clear observation**, making the science goal of the first aerial EAS reconstruction from above via fluorescence achievable.