

# **Lens manufacturing for the near future missions of ultra high energy cosmic rays**

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We present the lens manufacturing for the near future missions of ultra high energy cosmic rays. The EUSO ultra long duration balloon flight mission and the K-EUSO project have been planned. The balloon optics is composed of two Fresnel lenses and a diffractive lens. The K-EUSO optics is composed of a primary aspherical mirror and a Fresnel lens as a corrector lens. RIKEN will provide Fresnel lenses for both projects.

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