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Optical system with SiPM-based camera for the TAIGA hybrid installation

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A novel wide-angle imaging air Cherenkov telescope with a SiPM based camera is being developed for the TAIGA hybrid installation. The design of the telescope optical part is discussed. The telescope is planned to have a wide field of view up to 15–20 degrees and an aperture up to $1 m^2$. The ray-tracing simulations of optical schemes properties were done using specially developed program. The same program was used to trace Cherenkov photons generated by CORSIKA to evaluate the telescope overall response to EAS.

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