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Development of a 1.8M Raman LIDAR for CTA

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The use of a Raman LIDAR together with Image Air Cherenkov Telescopes (IACT) would allow to improve the duty cycle and reduce systematical uncertainties of the latter. The Raman LIDARS allow the monitoring of the atmospheric transmission probability with a quite good accuracy but the altitude range needed by the IACT is challenging, 20 km. A Raman LIDAR is being developed at IFAE for CTA by recycling an old telescope from the CLUE experiment. The large 1.8 diameter mirror and the use of the most advanced technologies will hopefully allow fulfilling the requirements.

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