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【226】 Laser Lightning Rod

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Along with the evolution of the laser technologies, the idea to develop a new type of lightning protection based on lasers has emerged in recent years. The goal of the European funded LLR project is to investigate and develop a lightning protection based on the use of upward lightning discharges initiated through a high repetition rate multi terawatt laser. The feasibility of the novel technique is based on recent research providing new insights into the mechanism responsible for the guiding of electrical discharges by laser filaments, on cutting-edge high power laser technology and on the availability of the Säntis lightning measurement station in Switzerland.

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