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TITLE: The ALPS experiment at DESY

ABSTRACT

The ALPS (Axion-Like Particle Search) experiment is a photon regeneration experiment which exploits the photon beam of a high-power laser, sent along the transverse magnetic field of a superconducting HERA dipole magnet. This setup offers a window of opportunity for a rapid and firm establishment or exclusion of the axion-like particle interpretation of the PVLAS anomaly. If this particle turns out to exist, ALPS will also allow for the measurement of its mass, parity, and coupling strength.