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**CALIOPE: A Test of CPT-invariance in o-Ps Decay**

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We propose a test of CPT-invariance in ortho-positronium (o-Ps) decays with CALIOPE, or CP(T) Aberrant Leptons in o-Ps Experiment. CPT-violation could manifest itself in angular correlations between the directions of the three gamma rays emitted in the decay of o-Ps. We use an array that provides 75% of  $4\pi$  angular acceptance, increasing our statistics over previous such experiments. The array is composed of 24 NaI(Tl) bars arranged cylindrically. A cylinder of aerogel adjacent to a tagged source supplies positronium at the center of the array. We will present a systematics study and the first detection of o-Ps. A search for CP-violation is also possible with the addition of an electromagnet.