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Table top searches for screened scalar interactions associated with dark energy

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Recent proposals have suggested that dark energy could arise from interactions related to a new scalar particle. In models where such forces are “screened,” existing laboratory constraints on fifth forces and solar system bounds can be avoided. We will present results from table top laboratory searches for new scalars that would be sensitive to certain classes of such screened interactions. Results from recent searches for new forces acting on both atoms and micron-sized silica spheres will be presented, and the future sensitivity of these techniques will be discussed.

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Classification de Session: Dark Matter & Axions

Classification de thématique: Experiment