

Atoms:

David Weiss, Cs:

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> Information concerning your project:
>
> - Search for ..-EDM using ... system: Cold Cs and Rb atoms in optical
> lattices
>
> - name and email address of contact persons / spokespersons: David
> Weiss, dsweiss@phys.psu.edu
>
> - collaborating partners: Kunyan Zhu, Neal Solmeyer, Cheng Tang (all
> at Penn State)
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website:[http://phys.psu.edu/people/display/index.html?person_id=421;mo
> de=research;research_description_id=343](http://phys.psu.edu/people/display/index.html?person_id=421;mode=research;research_description_id=343)
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> - link to a recent talk: <http://g2pc1.bu.edu/lept06/Weiss-LM2006.pdf>
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> - specific features (some keywords): several second coherence times;
> high sensitivity to the atomic EDM; very well understood atomic
> physics;
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> - major challenges (some keywords): sensitive to time-varying magnetic
> field gradients
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> - schedule, aimed at sensitivity and timeline for results: We hope
to
> start taking EDM data in early 2013.
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Sensitivity goal: 4E-30 e-cm for electron EDM (24 hours
data taking)
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