

**Quantum  
Physics**

## Download:

- [PDF](#)
- [PostScript](#)
- [Other formats](#)

Current browse context:

**quant-ph**

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1011](#)

Change to browse by:

[gr-qc](#)

## References & Citations

- [SLAC-SPIRES HEP](#)  
([refers to](#) | [cited by](#))
- [NASA ADS](#)

Bookmark([what is this?](#))



# Quantum Incompressibility of a Freely Falling Hydrogen Atom in a Circular Rydberg

# State, and a Gravitationally -Induced Charge Separation Effect in Superconducting Systems

R.Y. Chiao, S.J.

Minter, K.

Wegter-McNelly,

L.A. Martinez

*(Submitted on 2  
Nov 2010)*

Freely  
falling  
point-like  
objects  
converge  
toward  
the  
center of  
the  
Earth.  
Hence  
the  
gravitational  
field of

the  
Earth is  
inhomogeneous,  
and  
possesses  
a tidal  
component.  
The free  
fall of an