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**Suppression  
of the  
quantum-  
mechanical  
collapse  
by  
repulsive  
interactions  
in a**

# quantum gas

Hidetsugu  
Sakaguchi,  
Boris A.  
Malomed

*(Submitted on 28  
Oct 2010)*

The  
quantum-  
mechanical  
collapse  
(alias fall  
onto the  
center of  
particles  
attracted  
by  
potential  
 $-1/r^2$ ),  
or  
"quantum  
anomaly",  
is a well-  
known  
issue in  
the  
quantum  
theory.  
We  
demonstrate  
that the

mean-