

**Quantum  
Physics**

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# Thermodynamics of quantum measurements

[Noam Erez](#)

*(Submitted on 3  
Nov 2010)*

Quantum  
measurement

of a  
system  
can  
change  
its mean  
energy,  
as well  
as  
entropy.

A  
selective  
measurement  
(classical  
or  
quantum)  
can be  
used as  
a  
"Maxwell's