Chemistry at Extremely Low Temperatures - Quantum Tunneling, Spin Control, and Some Interstellar Molecules

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Research from the cluster of excellence Resolv showed that carbon atoms can tunnel: they overcome an energetic barrier, although they do not actually possess enough energy to do that. This is only possible if he behaves like a wave, but not if he behaves like a particle. This means, that carbon atoms can behave like particles and like waves. This double life has already been sufficiently described for light particles and electrons. However, researchers have only rarely been able to observe the wave-particle phenomenon for heavy atoms such as carbon. "It's as though a tiger has left his cage without jumping over the fence because the fence is much too high for him. But he still gets out."

Einführung: Prof. Dr. R.-J. Dettmar

Die Fakultät lädt alle Interessierten herzlich ein.