

## Quantum Physics

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**Controlling  
the  
quantum  
stereodynamics  
of  
ultracold  
bimolecular  
reactions**

M. H. G. de  
Miranda, A.  
Chotia, B.  
Neyenhuis, D.  
Wang, G.  
Quemener, S.  
Ospelkaus, J. L.  
Bohn, J. Ye, D.  
S. Jin

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Oct 2010)*

Chemical  
reaction  
rates  
often  
depend  
strongly  
on  
stereodynamics,  
namely  
the  
orientation  
and  
movement  
of  
molecules  
in three-  
dimensional  
space.  
An  
ultracold  
molecular

gas, with  
a  
temperature  
below 1  
uK,  
provides  
a highly  
unusual  
regime