

# CONTINUOUS GAS: FROM MALLIAVIN TO GIBBS

**Liming WU** *Université Blaise Pascal – Clermont II, France & Chinese Academy of Sciences, Beijing,*  
E-mail: wuliming@amt.ac.cn

**Abstract:** For the Glauber dynamic associated with the continuous gas with pair interaction, we use the Malliavin calculus and martingale problem approach to show the martingale uniqueness for every initial distribution. Exponential convergence is derived explicitly by exploring some curvature information of this jumps model.