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**Jean-René Chazottes\*** ([jeanrene@cpht.polytechnique.fr](mailto:jeanrene@cpht.polytechnique.fr)), CPHT, CNRS-Ecole Polytechnique, 91128 Palaiseau, France. *Concentration via coupling and some applications.*

We will describe some concentration inequalities for Markov processes, dynamical systems, Gibbs random fields and interacting particle systems. Our approach is via coupling. We get not only gaussian but also moment inequalities. Some applications will be mentioned. This is joint work with P. Collet and F. Redig. (Received February 25, 2009)