

1058-37-184

E Andrei Ghenciu* (eghenciu@ecok.edu). *Non-irreducible Gibbs States over Finite and Infinite Alphabets.*

We extend the study of Gibbs states to the case when the defining incidence matrix is not finitely irreducible anymore. We give necessary and sufficient conditions for a Gibbs state to exist when the alphabet is finite and look at the infinite case as well. Connections with Graph Directed Markov Systems will be discussed. (Received February 15, 2010)