

Abstract Submitted
for the OSF07 Meeting of
The American Physical Society

Use of Glauber P distributions to characterize entanglement JEFF
HYDE, PERRY RICE — Engangled states are a rich part of quantum mechanics
that may have use in various computational and communication schemes, but for
mixed or multipartite systems there is no good measure of entanglement, or a cirteria
to deterime if a state is entangled or not. Nonclassical states always have a Glauber P
distribution that takes on a negative value. We explore joint distribution properties
to try and find ways to characterize the amount or presence of entanglement.

Perry Rice
Miami U

Date submitted: 28 Sep 2007

Electronic form version 1.4