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Physics**

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**Continuous
variables
approach
to
entanglement
creation
and
processing**

[Li-hui Sun](#), [Gao-xiang Li](#),
[Zbigniew Ficek](#)

*(Submitted on 9
Oct 2010)*

We
apply
the
continuous
variable
approach
to study
entangled
dynamics
of
coupled
harmonic
oscillators
interacting
with a
thermal
reservoir
and to a
deterministic
creation
of
entanglement
in an