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**Emergence
of
Periodic
Structure
from
Maximizing
the
Lifetime**

of a Bound State Coupled to Radiation

Braxton Osting,
Michael I.
Weinstein

*(Submitted on 27
Oct 2010)*

Consider
a system
governed
by the
time-
dependent
Schrödinger
equation
in its
ground
state.

When
subjected
to weak
(size ϵ)
parametric
forcing
by an
"ionizing

field" (time

-

varying),

the state

decays