

Abstract Submitted  
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**Theoretical Analysis of a Seeded Induced Coherence Setup**

NATHANIEL MILLER, WILLIAM PLICK, University of Dayton — Induced Coherence experiments allow measurements to be taken on modes separate from those that have interacted with the sample. We theoretically study a variation of this where the input modes of the non-linearities are now seeded with coherent light. An analysis will be given for various measurement schemes, with an eye towards improved measurement sensitivity and the utilization of novel optical effects.

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