

Abstract Submitted  
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**Robust population transfer by non-overlapping pulse trains**

VLADIMIR MALINOVSKY, US Army Research Laboratory, Adelphi, MD 20783

— We investigate coherent population transfer in a  $\Lambda$ -type three-level system driven by time delayed pulse trains. We demonstrate that the efficient population transfer can be achieved without partial overlap of the pump and the Stokes sub-pulses of the pulse trains. The mechanism of the population transfer and the robustness of the proposed scheme are discussed.

Vladimir Malinovsky  
US Army Research Laboratory, Adelphi, MD 20783

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