

Abstract Submitted
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Particle Trapping in Raman Backscatter RYAN LINDBERG,
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WURTELE, LBNL Center for Beam Physics — We present an approach to modelling
the effects of particle trapping on coherent Raman backscatter (RBS) in plasmas
with negligible linear Landau damping. Using the formalism of adiabatic separatrix
crossing [1], we calculate the trapped particle fraction and their average action, and
use this to approximate a kinetic detuning term for use in a three-wave model of
RBS. 1. Tennyson, Cary, Escande. PRL 56, 2117 (1986).

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