

Abstract Submitted
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Phonon Fano effect in RIXS across a CDW instability THOMAS
DEVEREAUX, SLAC National Lab and Stanford University — In this talk I will
present a theory for resonant photoexcitation of phonons using x-ray inelastic spec-
troscopy. I will show how the strength of electron-phonon can be characterized in a
momentum dependent way, and demonstrate how the phonon-continuum lineshape
displays a characteristic Fano effect as an incipient charge density wave state forms.

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