

Abstract Submitted
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Coherent Surface-Enhanced Resonant Raman Spectroscopy XI-
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Texas A&M Univ, IQSE TEAM — Spontaneous Raman scattering has been widely
used to perform molecular chemical analysis but weak signals from small amounts
of material present a challenge. Surface-enhanced Raman scattering (SERS) and
coherent anti-stoke Raman scattering (CARS) spectroscopies are two of the most
common techniques to enhance the Raman signals. Several attempts have been
done to combine those techniques to reach the maximum signal enhancement. We
investigate resonant Raman effects for enhanced Raman scattering and combine it
with surface and coherence enhancements.

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