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**Power Narrowing via Optical Pumping** AARON WEISER, MATTHEW COMMONS, JONATHAN FEIGERT, JOHN GEORGE, MICHAEL CRESCIMANNO, Dept. of Physics and Astronomy, Youngstown State University — Ancillary phase-independent optical fields can be used as probes of lineshape changes due to optical pumping in saturated absorption spectroscopy (SAS). We test a strictly population-based theoretical model of power-driven resonance narrowing by comparing it with experimental results of Rubidium SAS in D1-D1 (pump-probe) and D2-D1 + ancillary optical fields

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