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**Experimental Stark widths of the 3p-3s transition of Ne VIII**<sup>1</sup> SIEGFRIED GLENZER, JAMES ROSS, Lawrence Livermore National Laboratory, University of California, P.O. Box 808, Livermore, California 94551, HANS KUNZE, Institute for Experimental Physics, Ruhr University Bochum, 44780 Bochum, Germany — We report measurements of the line width of the 3p-3s transition in Ne VIII in laser-produced gas jet plasmas. The density is inferred from the Paschen-alpha line in He II, the temperature from Thomson scattering. Preliminary results confirm measurements in pinch and pulsed-arc plasmas indicating that newest quantum-mechanical calculations underestimate the line width by a factor of two.

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