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Alejandro Aceves* (aaceves@smu.edu), Department of Mathematics, Clements Hall, Southern Methodist University, Dallas, TX 75275. *Modeling fiber laser arrays*. Preliminary report.

Novel lasers consisting of suitable coupling of fiber amplifiers are currently being investigated since they have the potential of generating high power coherent outputs. In this talk we first present a brief survey of the modeling of fiber laser arrays and we present a progress report on our own research in this area. (Received February 11, 2010)