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Matthew Rudd* (mbrudd@sewanee.edu), 735 University Avenue, Sewanee, TN 37383. *Dirichlet puzzles and nonlinear averaging*. Preliminary report.

This will be a progress report on joint work with David Hartenstine (Western Washington University) on functional equations and nonlinear averaging operators related to the normalized p -Laplacian. I will discuss some generalizations of our previous results and some possible extensions to vector-valued Dirichlet problems. (Received September 08, 2016)