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Oleksandra V Beznosova* (alexbeznosova@yahoo.com), **Dariusz Panek** and **Maria Cristina Pereyra**. *A new sharp version of Buckley's inequality*. Preliminary report.

We show a sharp version of Buckley's inequality for the weights in the Gehring class G_1 and apply it to the two-weight estimate of the norm of the dyadic square function and norms of Haar Multipliers. (Received February 23, 2010)