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Vasily Vasyunin* (vasyunin@pdmi.ras.ru). *General extremal problems for integral functionals on BMO and their Bellman functions.*

There are a few classical BMO problems that have been solved by the Bellman function method (for instance, the integral and weak forms of the John–Nirenberg inequality and L^p -estimates of BMO functions). These results (mostly in collaboration with L. Slavin) have made clear that it is possible to formulate a rather general method of solving a big class of extremal problems for integral functionals on BMO. The work is still in progress, but I would like to describe some results in that direction. (Received January 19, 2011)