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Fedor Nazarov, Alexander B Reznikov* (reznikov@ymail.com), **Vasily Vasyunin** and **Alexander Volberg**. *"Monge-Ampere equations and Bellman functions related to A_1 -conjecture.*

Recently Maria Reguera disproved the famous Muckenhoupt-Wheeden conjecture related to Calderon-Zygmund operators. Soon after that the weak version of it was disproved by means of Bellman Function. The certain Monge-Ampere equation was used to disprove it.

We shall talk about several Monge-Ampere equations which arise in the problem and point out some unusual things that were investigated in this proof. (Received December 13, 2010)