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**Nested Bethe vectors for the models with** $U_q(gl(N))$ **and** $Y(gl(N))$ **symmetries**

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**November 10, 2015 at 11:30 in T115C**

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**Abstract:** Different explicit formulas for the hierarchical Bethe vectors obtained in the framework of the universal nested Bethe ansatz will be presented. Applications of these formulas to the problem of calculations of the form factors in the quantum integrable models will be discussed.