

Form factors of local operators in $GL(3)$ -invariant integrable models

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We consider quantum integrable models solvable by the nested algebraic Bethe ansatz and possessing the $GL(3)$ -invariant R-matrix. We introduce a composite model where the total monodromy matrix of the model is presented as a product of two partial monodromy matrices. This presentation allows us to study operators depending on an internal point of the interval. Assuming that the monodromy matrix can be expanded into series with respect to the inverse spectral parameter we calculate form factors of the local operators in the model under consideration. We reduce these form factors to the ones of the monodromy matrix entries, which were calculated in our previous works. Thus, we obtain determinant representations for form factors of the local operators.