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- 1) N. Cirilo António, N. Manojlović, I. Salom, "Algebraic Bethe ansatz for the XXX chain with triangular boundaries and Gaudin model", Nucl. Phys. B, 889 (2014) 87–108, doi:10.1016/j.nuclphysb.2014.10.014

Rad je citiran u 3 publikacije:

- Lukyanenko I., Isaac P.S., Links J, An integrable case of the p + IP pairing Hamiltonian interacting with its environment, Journal of Physics A: Mathematical and Theoretical, Volume 49, Issue 8, 20 January 2016, <http://dx.doi.org/10.1088/1751-8113/49/8/084001>
- Belliard S., Pimenta R.A., Slavnov and Gaudin-Korepin formulas for models without U (1) symmetry: The XXX chain on the segment, Journal of Physics A: Mathematical and Theoretical, Volume 49, Issue 17, 18 March 2016, <http://dx.doi.org/10.1088/1751-8113/49/17/17LT01>
- Belliard Samuel, Modified algebraic Bethe ansatz for XXZ chain on the segment – I: Triangular cases - Nucl.Phys. B892 (2015) 1-20, <http://dx.doi.org/10.1016/j.nuclphysb.2015.01.003>  
(Napomena: ovde je greškom autora citiran kao verzija na arXiv-u: N. Cirilo António, N. Manojlović, I. Salom, Algebraic Bethe ansatz for the XXX chain with triangular boundaries and Gaudin model, arXiv:1405.7398)

- 2) N. Cirilo António, N. Manojlović, E. Ragoucy, I. Salom, "Algebraic Bethe ansatz for the sl(2) Gaudin model with boundary", Nucl. Phys. B, 893 (2015) 305-331, <http://dx.doi.org/10.1016/j.nuclphysb.2015.02.011>

Rad je citiran u jednoj publikaciji:

- Lukyanenko I., Isaac P.S., Links J, An integrable case of the p + IP pairing Hamiltonian interacting with its environment, Journal of Physics A: Mathematical and Theoretical, Volume 49, Issue 8, 20 January 2016, <http://dx.doi.org/10.1088/1751-8113/49/8/084001>

- 3) Veljko Dmitrasinovic and Igor Salom, "SO(4) algebraic approach to the three-body bound state problem in two dimensions", J. Math. Phys. 55, 082105 (2014), DOI: 10.1063/1.4891399

Rad je citiran u jednoj publikaciji:

- Loos PF, Bloomfield NJ, Gill PM, Three-electron coalescence points in two and three dimensions, J Chem Phys. 2015 Nov 14;143(18):181101. doi: 10.1063/1.4935374.

- 4) Igor Salom and Djordje Šijački, "Validity of the Gell-Mann formula for sl(n, R) and su(n) Algebras", International Journal of Geometric Methods in Modern Physics, 10 (2013), 1350017.

Rad je citiran u jednoj publikaciji:

- Patrick Moylan, Euclidean and super Euclidean algebras and Localizations of  $U_q(\mathfrak{sl}(2))$  and  $U_q(\mathfrak{osp}(1|2))$ , Journal of Physics: Conference Series 512(2014) 012026, doi:10.1088/1742-6596/512/1/012026

- 5) Igor Salom and Djordje Šijački, "Generalization of the Gell-Mann decontraction formula for  $\mathfrak{sl}(n, \mathbb{R})$  and  $\mathfrak{su}(n)$  algebras", International Journal of Geometric Methods in Modern Physics, 8 (2011), 395-410.

Rad je citiran u jednoj publikaciji:

- David Finkelstein, Quantum simplicial dynamics, 2011 J. Phys.: Conf. Ser. 330 012001, <http://dx.doi.org/10.1088/1742-6596/330/1/012001>

- 6) Igor Salom and Djordje Šijački, "Generalization of the Gell-Mann formula for  $\mathfrak{sl}(5, \mathbb{R})$  and  $\mathfrak{su}(5)$  algebras", International Journal of Geometric Methods in Modern Physics, 7 (2010) 455-470.

Rad je citiran u 2 publikacije:

- Patrick Moylan, Invariant Cones in Lie Algebras and Positive Energy Representations and Contractions of Conformal Algebras, Journal of Physics: Conference Series 462(2013) 012037, doi:10.1088/1742-6596/462/1/012037
- Jose Morales and Edixon M Rojas, On the Existence of Fixed Points of Contraction Mappings Depending of Two Functions on Cone Metric Spaces, Bull. Iranian Math. Soc. Vol. 40 (2014), No. 3, pp. 689–698, arXiv:0910.4921

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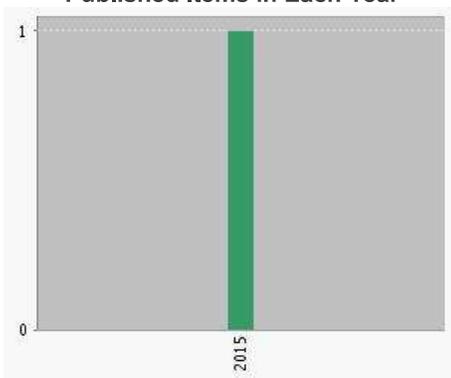
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**Article** in Nuclear Physics B 889:87-108 · October 2014

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10.81 · University of Lisbon

 2nd [Nenad Manojlović](#)  
26.55 · Universidade do Algarve

 3rd [Igor Salom](#)  
14.38 · Institute of Physics Belgrade

## Abstract

We implement fully the algebraic Bethe ansatz for the XXX Heisenberg spin chain in the case when both boundary matrices can be brought to the upper-triangular form. We define the Bethe vectors which yield the strikingly simple expression for the off shell action of the transfer matrix, deriving the spectrum and the relevant Bethe equations. We explore further these results by obtaining the off shell action of the generating function of the Gaudin Hamiltonians on...

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# Algebraic Bethe ansatz for the XXX chain with triangular boundaries and Gaudin model

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form. We define the Bethe vectors which yield the strikingly simple expression for the off shell action of the transfer matrix, deriving the spectrum and the corresponding Bethe equations. We explore further these results by obtaining the off shell action of the generating function of the Gaudin Hamiltonians on the Bethe vectors through the so-called quasi-classical limit.

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<sup>†</sup>E-mail address: nmanoj@ualg.pt

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**Article** in *International Journal of Geometric Methods in Modern Physics* 7(3) · June 2009

DOI: 10.1142/S0219887810004397 · Source: arXiv

 1st [Igor Salom](#)  
14.38 · Institute of Physics Belgrade

 2nd [Djordje Sijacki](#)  
26.05 · University of Belgrade

## Abstract

The so called Gell-Mann formula expresses the Lie algebra elements in terms of the corresponding Inonu-Wigner contracted ones. In the case of  $sl(n, \mathbb{R})$  and  $su(n)$  algebras contracted w.r.t.  $so(n)$  subalgebras, the Gell-Mann formula is generally not valid, and applies only in the cases of some algebra representations. A generalization of the Gell-Mann formula for  $sl(5, \mathbb{R})$  and  $su(5)$  algebras, that is valid for all representations, is obtained in a group manifold...

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Igor Salom †

Institute of Physics, P.O. Box 57, 11001 Belgrade, Serbia

Djordje Šijački ‡

Institute of Physics, P.O. Box 57, 11001 Belgrade, Serbia

June 11, 2009

## Abstract

The so called Gell-Mann formula expresses the Lie algebra elements in terms of the corresponding Inönü-Wigner contracted ones. In the case of  $sl(n, \mathbb{R})$  and  $su(n)$  algebras contracted w.r.t.  $so(n)$  subalgebras, the Gell-Mann formula is generally not valid, and applies only in the cases of some algebra representations. A generalization of the Gell-Mann formula for  $sl(5, \mathbb{R})$  and  $su(5)$  algebras, that is valid for all representations, is obtained in a group manifold framework of the  $SO(5)$  and/or  $Spin(5)$  group.

PACS: 02.20.Sv, 02.20.Qs; MSC2000: 20C33, 20C40;

## 1 Introduction

The Gell-Mann, or "decontraction" formula is a simple prescription designed to determine a deformation of a Lie algebra that is "inverse" to the Inönü-Wigner contraction [1]. This formula expresses elements of "decontracted"

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\* This work was supported in part by MNTR, Belgrade, Project-141036.

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