

Publication List

Takeshi Oota

- [1] Hiroshi Itoyama and Takeshi Oota, “Neutral Excitations and Others in the Sine-Gordon Theory,” *Progress of Theoretical Physics Supplement No.* **114** (1993) 41-51.
- [2] H. Itoyama and T. Oota, “Sine-Gordon theory with higher-spin $N=2$ supersymmetry and the massless limit,” *Nuclear Physics B* **419** (1994) 632-646.
- [3] Takeshi Oota, “Functional equations of form factors for diagonal scattering theories,” *Nuclear Physics B* **466** (1996) 361-382.
- [4] N. Fumita, H. Itoyama and T. Oota, “Motions of the string solutions in the XXZ spin chain under a varying twist,” *International Journal of Modern Physics A: Mathematical and General* **12** (1997) 801-838.
- [5] Vladimir E. Korepin and Takeshi Oota, “Scattering of plane waves in self-dual Yang-Mills theory,” *Journal of Physics A: Mathematical and General* **29** (1996) L625-L628.
- [6] Vladimir E. Korepin and Takeshi Oota, “Relation between Classical Self-Dual Yang-Mills Equation and Quantum Inverse Scattering Method,” in Eds. E. Date, T. Miwa and M. Okado, *INFINITE ANALYSIS, Integrable Systems and Representation Theory*, IAS Reports No.1997-001 (1997) 59-69.
- [7] Takeshi Oota, “ q -deformed Coxeter element in non-simply laced affine Toda field theories,” *Nuclear Physics B* **504** (1997) 738-752.
- [8] Vladimir E. Korepin and Takeshi Oota, “The Determinant Representation for a Correlation Function in Scaling Lee-Yang Model,” *Journal of Physics A: Mathematical and General* **31** (1998) L371-L380.
- [9] Takeshi Oota, “Two-point correlation functions in perturbed minimal models,” *Journal of Physics A: Mathematical and General* **31** (1998) 7611-7626.
- [10] Masafumi Fukuma, Takeshi Oota and Hirokazu Tanaka, “Comments on T-dualities of Ramond-Ramond Potentials,” *Progress of Theoretical Physics* **103** (2000) 425-446.
- [11] Masafumi Fukuma, Takeshi Oota and Hirokazu Tanaka, “Weyl Groups in AdS_3/CFT_2 ,” *Progress of Theoretical Physics* **103** (2000) 447-462.

- [12] H. Itoyama and T. Oota, “Normalization of off-shell boundary state, g-function and zeta function regularization,” *Journal of Physics A: Mathematical and General* **35** (2002) 9395-9414.
- [13] Takeshi Oota, “Quantum projectors and local operators in lattice integrable models,” *Journal of Physics A: Mathematical and General* **37** (2004) 441-452.
- [14] Takeshi Oota, “Comments on Equations of Motion for Pure Spinors in Even Dimensions,” preprint hep-th/0411036.
- [15] Takeshi Oota and Yukinori Yasui, “Toric Sasaki-Einstein manifolds and Heun equations,” *Nuclear Physics B* **742** (2006) 275-294.
- [16] Takeshi Oota and Yukinori Yasui, “Explicit toric metric on resolved Calabi-Yau cone,” *Physics Letters B* **639** (2006) 54-56.
- [17] Takeshi Oota and Yukinori Yasui, “New Example of Infinite Family of Quiver Gauge Theories,” *Nuclear Physics B* **762** (2007) 377-391.
- [18] H. Itoyama and T. Oota, “The $AdS_5 \times S^5$ superstrings in the generalized light-cone gauge,” *Progress of Theoretical Physics* **117** (2007) 957-972.
- [19] Naoki Hamamoto, Tsuyoshi Houri, Takeshi Oota and Yukinori Yasui, “Kerr-NUT-de Sitter Curvature in All Dimensions,” *Journal of Physics A: Mathematical and Theoretical* **40** (2007) F177-F184.
- [20] Tsuyoshi Houri, Takeshi Oota and Yukinori Yasui, “Closed conformal Killing-Yano tensor and geodesic integrability,” *Journal of Physics A: Mathematical and Theoretical* **41** (2008) 025204.
- [21] Tsuyoshi Houri, Takeshi Oota and Yukinori Yasui, “Closed conformal Killing-Yano tensor and Kerr-NUT-de Sitter spacetime uniqueness,” *Physics Letters B* **656** (2007) 214-216.
- [22] Takeshi Oota and Yukinori Yasui, “Separability of Dirac equation in higher dimensional Kerr-NUT-de Sitter spacetime,” *Physics Letters B* **659** (2008) 688-693.
- [23] Hiroshi Itoyama, Takeshi Oota and Reiji Yoshioka, “Nambu-Goto Like Action for the $AdS_5 \times S^5$ Superstrings in the Generalized Light-Cone Gauge,” *Progress of Theoretical Physics* **119** (2008) 323-338.
- [24] Tsuyoshi Houri, Takeshi Oota and Yukinori Yasui, “Generalized Kerr-NUT-de Sitter metrics in all dimensions,” *Physics Letters B* **666** (2008) 391-394.

- [25] Tsuyoshi Houri, Takeshi Oota and Yukinori Yasui, “Closed conformal Killing-Yano tensor and uniqueness of generalized Kerr-NUT-de Sitter spacetime,” *Classical and Quantum Gravity* **26** (2009) 045015 (18pp).
- [26] Takeshi Oota and Yukinori Yasui, “Separability of gravitational perturbation in generalized Kerr-NUT-de Sitter spacetime,” *International Journal of Modern Physics A* **15** (2010) 3055-3094.
- [27] Hiroshi Itoyama, Kazunobu Maruyoshi and Takeshi Oota, “The Quiver Matrix Model and 2d-4d Conformal Connection,” *Progress of Theoretical Physics* **123** (2010) 957-987.
- [28] Hiroshi Itoyama and Takeshi Oota, “Method of Generating q -Expansion Coefficients for Conformal Block and $\mathcal{N} = 2$ Nekrasov Function by β -Deformed Matrix Model” *Nuclear Physics B* **838** [PM] (2010) 298-330.
- [29] Hiroshi Itoyama, Takeshi Oota and Nobuhiro Yonezawa, “Massive Scaling Limit of β -Deformed Matrix Model of Selberg Type,” *Physical Review D* **82** 085031 (2010).
- [30] Hiroshi Itoyama and Takeshi Oota, “ $A_n^{(1)}$ Affine Quiver Matrix Model,” *Nuclear Physics B* **852** (2011) 336-351.
- [31] Takeshi Oota, “ β -deformed matrix models and Nekrasov partition function,” *International Journal of Modern Physics: Conference Series* **21** (2013) 92-100.
- [32] Hiroshi Itoyama, Takeshi Oota and Reiji Yoshioka, “2d-4d connection between q -Virasoro/W block at root of unity limit and instanton partition function on ALE space,” *Nuclear Physics B* **877** (2013) 506-537.
- [33] H. Itoyama, T. Oota and R. Yoshioka, “ q -Virasoro algebra at root of unity limit and 2d-4d connection,” *Journal of Physics: Conference Series* **474** (2013) 012022 [13 pages].
- [34] H. Itoyama, T. Oota and R. Yoshioka, “ q -Virasoro/W algebra at root of unity and parafermions,” *Nuclear Physics B* **889** (2014) 25-35.
- [35] H. Itoyama, T. Oota and R. Yoshioka, “ q -Vertex Operator from 5D Nekrasov Function,” *Journal of Physics A: Mathematical and Theoretical* **49** (2016) no.34, 345201.
- [36] H. Itoyama, T. Oota, T. Suyama and R. Yoshioka, “Cubic constraints for the resolvents of the ABJM matrix model and its cousins,” *International Journal of Modern Physics A* **32** (2017) no.11, 1750056.

- [37] H. Itoyama, T. Oota and R. Yoshioka, “Elliptic algebra, Frenkel-Kac construction and root of unity limit,” *Journal of Physics A: Mathematical and Theoretical* **50** (2017) no.36, 365401.
- [38] H. Itoyama, T. Oota and Katsuya Yano, “Discrete Painlevé system and the double scaling limit of the matrix model for irregular conformal block and gauge theory,” *Physics Letters B*, Volume **789**, 10 February 2019, 605-609 (2019).
- [39] H. Itoyama, T. Oota and Katsuya Yano, “Discrete Painlevé system for the partition function of $N_f = 2$ $SU(2)$ supersymmetric gauge theory and its double scaling limit,” *Journal of Physics A: Mathematical and Theoretical*, Vol. **52**, Number 41, 415401 (2019), 18 September 2019 (49 pages).
- [40] H. Itoyama, T. Oota and K. Yano, “Discrete Painlevé system associated with Unitary matrix model,” *Journal of Physics: Conference Series*, **1194**, no. 1, 012050 [9 pages] (2019) .
- [41] H. Itoyama, T. Oota and K. Yano, “Multicritical points of unitary matrix model with logarithmic potential identified with Argyres-Douglas points,” *International Journal of Modern Physics A* Vol.**35**, No. 24, 2050146 [12 pages] (2020).
- [42] T. Oota, “Perturbation of multi-critical unitary matrix models, double scaling limits, and Argyres-Douglas theories,” *Nuclear Physics B*, Vol. **976**, 115718 [26 pages] (2022).