

Azam, Saeid; Soltani, Mohammad Bagher; Tomie, Masaya; Yoshii, Yoji

Characterization and enumeration of reflectable bases of types $E_{6,7,8}$. (English) Zbl 07517783

Commun. Algebra 50, No. 6, 2694-2718 (2022)

MSC: 17B67 20F55 94C15

Full Text: [DOI](#)

Azam, Saeid; Farahmand Parsa, Amir; Izadi Farhadi, Mehdi

Integral structures in extended affine Lie algebras. (English) Zbl 07474383

J. Algebra 597, 116-161 (2022)

MSC: 17B67 17B65 19C99 20G44 22E65

Full Text: [DOI](#) [arXiv](#)

Azam, Saeid; Tomie, Masaya; Yoshii, Yoji

Classification of pointed reflection spaces. (English) Zbl 07402988

Osaka J. Math. 58, No. 3, 563-589 (2021)

MSC: 17B22 05B35

Full Text: [Link](#)

Azam, Saeid; Parishani, Fatemeh

Cayley graph characterization of geometric reflections. (English) Zbl 07372714

J. Lie Theory 31, No. 2, 413-438 (2021)

MSC: 20F55 17B67 05C25

Full Text: [Link](#)

Azam, Saeid; Soltani, Mohammad Bagher; Tomie, Masaya; Yoshii, Yoji

A graph-theoretical classification for reflectable bases. (English) Zbl 1464.17016

Publ. Res. Inst. Math. Sci. 55, No. 4, 689-736 (2019).

MSC: 17B22 17B67 17B65 20F55 51F15

Reviewer: [Dmitry Artamonov \(Moskva\)](#)

Full Text: [DOI](#)

Azam, Saeid; Parsa, Amir Farahmand

Groups of extended affine Lie type. (English) Zbl 1471.17044

Publ. Res. Inst. Math. Sci. 55, No. 3, 627-649 (2019).

MSC: 17B67 17B65 19C99 20G44 22E65

Reviewer: [Le Anh Vu \(Ho Chi Minh City\)](#)

Full Text: [DOI](#) [arXiv](#)

Azam, Saeid; Kharaghani, Zahra

Combinatorics of extended affine root systems (type A_1). (English) Zbl 1452.17014

J. Algebra Appl. 18, No. 3, Article ID 1950051, 22 p. (2019).

MSC: 17B22 17B67 20F55

Full Text: [DOI](#)

Azam, Saeid; Darehgazani, Abbas

Extended affine Lie superalgebras and their affinizations. (English) Zbl 1468.17033

Commun. Algebra 47, No. 7, 2549-2576 (2019).

MSC: 17B67 17B65 17B70

Reviewer: Le Anh Vu (Ho Chi Minh City)

Full Text: DOI

Azam, S.; Behboodi, G.

Derivations of extended multi-loop algebras. (English) Zbl 1436.17024

J. Lie Theory 29, No. 1, 247-262 (2019).

MSC: 17B40 17B65 17B67 17B70

Full Text: [Link](#)

Azam, S.

A new characterization of Kac-Moody-Malcev superalgebras. (English) Zbl 1427.17037

J. Algebra Appl. 16, No. 8, Article ID 1750144, 15 p. (2017).

MSC: 17B67 17A70 17B20

Full Text: DOI [arXiv](#)

Azam, S.; Behboodi, G.; Yousofzadeh, M.

Direct unions of Lie tori (realization of locally extended affine Lie algebras). (English)

Zbl 1403.17024

Commun. Algebra 44, No. 12, 5309-5341 (2016).

MSC: 17B67 17B65 17B70

Full Text: DOI

Khan, M.; Azam, S.; Bosan, S.

s -topological vector spaces. (English) Zbl 1412.57013

J. Linear Topol. Algebra 4, No. 2, 153-158 (2015).

MSC: 57N17 57N99

Full Text: [Link](#)

Azam, Saeid; Nikouei, Mohammad

A length function for Weyl groups of extended affine root systems of type A_1 . (English)

Zbl 1339.20035

Algebra Colloq. 22, No. 4, 621-638 (2015).

MSC: 20F55 17B22 20F05 17B67

Reviewer: Erich W. Ellers (Toronto)

Full Text: DOI [arXiv](#)

Azam, Saeid; Yoshii, Yoji; Yousofzadeh, Malihe

Jordan tori for a torsion free abelian group. (English) Zbl 1394.17068

Front. Math. China 10, No. 3, 477-509 (2015).

MSC: 17C50 16W50 17C10

Full Text: DOI [arXiv](#)

Azam, Saeid; Neeb, Karl-Hermann

Finite dimensional compact and unitary Lie superalgebras. (English) Zbl 1387.17017

J. Pure Appl. Algebra 219, No. 10, 4422-4440 (2015).

MSC: 17B20 17B05

Full Text: DOI [arXiv](#)

Azam, Saeid; Yamane, Hiroyuki; Yousofzadeh, Malihe

Classification of finite-dimensional irreducible representations of generalized quantum groups via Weyl groupoids. (English) [Zbl 1357.17015](#)

Publ. Res. Inst. Math. Sci. 51, No. 1, 59-130 (2015).

MSC: 17B37 17B10 17B20

Full Text: [DOI](#) [arXiv](#)

Azam, Saeid; Hosseini, S. Reza; Yousofzadeh, Malihe

Extended affinization of invariant affine reflection algebras. (English) [Zbl 1357.17022](#)

Osaka J. Math. 50, No. 4, 1039-1072 (2013).

MSC: 17B67 17B65

Full Text: [arXiv](#) [Euclid](#)

Azam, Saeid; Nikouei, Mohammad

Weyl groups associated with affine reflection systems of type A_1 (Coxeter type defining relations). (English) [Zbl 1272.20041](#)

Publ. Res. Inst. Math. Sci. 49, No. 1, 123-153 (2013).

MSC: 20F55 17B22 20F05 17B67

Reviewer: [Erich W. Ellers \(Toronto\)](#)

Full Text: [DOI](#) [arXiv](#)

Azam, Saeid; Yamane, Hiroyuki; Yousofzadeh, Malihe

Reflectable bases for affine reflection systems. (English) [Zbl 1305.17011](#)

J. Algebra 371, 63-93 (2012).

MSC: 17B22 17B67 20F55 51F15

Full Text: [DOI](#) [arXiv](#)

Azam, Saeid; Yousofzadeh, Malihe

Root systems arising from automorphisms. (English) [Zbl 1292.17010](#)

J. Algebra Appl. 11, No. 3, 1250057, 29 p. (2012).

MSC: 17B22 17B67 17B70

Full Text: [DOI](#)

Azam, Saeid; Shahsanaei, Valiollah

Extended affine Weyl groups: presentation by conjugation via integral collection. (English)

[Zbl 1257.20041](#)

Commun. Algebra 39, No. 2, 730-749 (2011).

MSC: 20F55 17B22 20F05

Full Text: [DOI](#) [arXiv](#)

Azam, Saeid; Yamane, Hiroyuki; Yousofzadeh, Malihe

A finite presentation of universal coverings of Lie tori. (English) [Zbl 1204.17018](#)

Publ. Res. Inst. Math. Sci. 46, No. 3, 507-548 (2010).

MSC: 17B67 17B65 17B35 17B70

Reviewer: [Jean-Marie Bois \(Kiel\)](#)

Full Text: [DOI](#) [arXiv](#)

Azam, Saeid; Khalili, Valiollah

Lie tori and their fixed point subalgebras. (English) [Zbl 1184.17009](#)

Algebra Colloq. 16, No. 3, 381-396 (2009).

MSC: 17B67 17B22

Full Text: [DOI](#) [Link](#)

Azam, Saeid; Shahsanaei, Valiollah

Extended affine Weyl groups of type A_1 . (English) [Zbl 1162.20026](#)

J. Algebr. Comb. 28, No. 4, 481-493 (2008).

MSC: 20F55 20F05 17B20

Full Text: [DOI](#)

Azam, Saeid

Derivations of tensor product algebras. (English) [Zbl 1209.17015](#)

Commun. Algebra 36, No. 3, 905-927 (2008).

MSC: 17B40 17B67 17B65

Full Text: [DOI](#) [arXiv](#)

Azam, Saeid; Shahsanaei, Valiollah

On the presentations of extended affine Weyl groups. (English) [Zbl 1144.20020](#)

Publ. Res. Inst. Math. Sci. 44, No. 1, 131-161 (2008).

MSC: 20F55 20F05 17B20 17B67

Full Text: [DOI](#)

Azam, Saeid; Shahsanaei, Valiollah

Presentation by conjugation for A_1 -type extended affine Weyl groups. (English)

[Zbl 1144.20311](#)

J. Algebra 319, No. 5, 1932-1953 (2008).

MSC: 20F55 20F05 17B20 17B67

Full Text: [DOI](#)

Azam, Saeid; Shahsanaei, Valiollah

Presentation by conjugation for A_1 -type extended affine Weyl groups. (English)

[Zbl 1143.20024](#)

J. Algebra 319, No. 4, 1428-1449 (2008).

MSC: 20F55 20F05 17B20 17B67

Full Text: [DOI](#) [arXiv](#)

Azam, Saeid

Derivations of multi-loop algebras. (English) [Zbl 1172.17016](#)

Forum Math. 19, No. 6, 1029-1045 (2007).

MSC: 17B67 17B40 17B65

Reviewer: [Juan Núñez Valdés \(Sevilla\)](#)

Full Text: [DOI](#)

Azam, Saeid; Shahsanaei, Valiollah

Simply laced extended affine Weyl groups (a finite presentation). (English) [Zbl 1133.20026](#)

Publ. Res. Inst. Math. Sci. 43, No. 2, 403-424 (2007).

MSC: 20F55 17B20 20F05 17B67

Reviewer: [Ye Jiachen \(Shanghai\)](#)

Full Text: [DOI](#) [arXiv](#) [Link](#)

Azam, Saeid

Generalized reductive Lie algebras: connections with extended affine Lie algebras and Lie tori. (English) [Zbl 1105.17012](#)

Can. J. Math. 58, No. 2, 225-248 (2006).

MSC: 17B65 17B67 17B40

Reviewer: [Duncan J. Melville \(Canton\)](#)

Full Text: [DOI](#)

[Azam, Saeid](#); [Berman, Stephen](#); [Yousofzadeh, Malihe](#)

Fixed point subalgebras of extended affine Lie algebras. (English) [Zbl 1128.17020](#)

J. Algebra 287, No. 2, 351-380 (2005).

MSC: 17B67

Full Text: [DOI](#) [arXiv](#)

[Azam, Saeid](#); [Khalili, Valiollah](#); [Yousofzadeh, Malihe](#)

Extended affine root systems of type BC . (English) [Zbl 1100.17003](#)

J. Lie Theory 15, No. 1, 145-181 (2005).

MSC: 17B20

Reviewer: [Mark R. Sepanski \(Waco\)](#)

Full Text: [EuDML](#)

[Azam, Saeid](#)

Nonreduced extended affine Weyl groups. (English) [Zbl 1093.20021](#)

J. Algebra 269, No. 2, 508-527 (2003).

MSC: 20F55 17B20 17B67 20E07

Full Text: [DOI](#)

[Azam, Saeid](#)

Generalized loop algebras, extended affine Lie algebras and root systems. (English)

[Zbl 1030.17026](#)

Bajo, Ignacio (ed.) et al., Proceedings of the 1st colloquium on Lie theory and applications, Universidade de Vigo, Vigo, Spain, July 17-22, 2000. Vigo: Universidade de Vigo, Servicio de Publicacións. Colecc. Congr. 35, 25-35 (2002).

MSC: 17B67

[Azam, Saeid](#)

Extended affine root systems. (English) [Zbl 1014.17020](#)

J. Lie Theory 12, No. 2, 515-527 (2002).

MSC: 17B65

Reviewer: [Gordon Brown \(Boulder\)](#)

Full Text: [EuDML](#) [EMIS](#)

[Azam, Saeid](#)

Classification of extended affine root systems. (English) [Zbl 1005.17017](#)

Proceedings of the 31st Iranian mathematics conference, Tehran, Islamic Republic of Iran, August 27-30, 2000. Tehran: University of Tehran, 169-176 (2000).

MSC: 17B65

[Azam, Saeid](#)

Construction of extended affine Lie algebras by the twisting process. (English) [Zbl 0972.17014](#)

Commun. Algebra 28, No. 6, 2753-2781 (2000).

MSC: 17B67 17B65

Reviewer: [Dražen Adamović \(Zagreb\)](#)

Full Text: [DOI](#)

[Azam, Saeid](#)

A presentation for reduced extended affine Weyl groups. (English) [Zbl 0952.20028](#)

Commun. Algebra 28, No. 1, 465-488 (2000).

MSC: 20F55 20F05 17B20

Reviewer: [Chen Chengdong \(Shanghai\)](#)

Full Text: [DOI](#)

[Azam, Saeid](#)

On the relation of extended affine Weyl groups and indefinite Weyl groups. (English)

[Zbl 1038.17019](#)

[J. Algebra](#) 222, No. 1, 174-189 (1999).

MSC: [17B67](#)

Full Text: [DOI](#)

[Azam, Saeid](#)

Extended affine Weyl groups. (English) [Zbl 0927.17013](#)

[J. Algebra](#) 214, No. 2, 571-624 (1999).

MSC: [17B67](#) [20F55](#) [17B20](#)

Reviewer: [Volodymyr Mazorchuk](#) (Kyiv)

Full Text: [DOI](#)

[Azam, Saeid](#)

Nonreduced extended affine root systems of nullity 3. (English) [Zbl 0897.17007](#)

[Commun. Algebra](#) 25, No. 11, 3617-3654 (1997).

MSC: [17B22](#) [17B67](#)

Reviewer: [Andrew N. Pressley](#) (London)

Full Text: [DOI](#)

[Allison, Bruce N.](#); [Azam, Saeid](#); [Berman, Stephen](#); [Gao, Yun](#); [Pianzola, Arturo](#)

Extended affine Lie algebras and their root systems. (English) [Zbl 0879.17012](#)

[Mem. Am. Math. Soc.](#) 126, No. 603, 122 p. (1997).

MSC: [17B67](#) [17-02](#) [17B22](#) [17B65](#)

Reviewer: [Andrew N. Pressley](#) (London)

Full Text: [DOI](#)