



#792 Summary

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Title and Abstract

Title	MATRIKS BERSIH KUAT ATAS \\RING DERET PANGKAT TERGENERALISASI MIRING
Abstract	Salah satu konsep dalam teori aljabar yang banyak digunakan adalah matriks atas lapangan (field). Dalam perkembangannya, konsep matriks atas lapangan diperumum menjadi matriks atas ring. Ring merupakan suatu sistem matematika yang terdiri dari suatu himpunan tak kosong yang dilengkapi dua operasi biner yang memenuhi beberapa aksioma. Ring yang banyak digunakan dalam kajian ilmu matematika terapan adalah Ring Polinomial $R[X]$ dan Ring Deret Pangkat $R[[X]]$. Salah satu sifat matriks atas ring yang telah dikaji oleh para peneliti adalah syarat cukup matriks atas ring $R[[X]]$ merupakan matriks bersih kuat. Pada perkembangannya, struktur $R[[X]]$ digeneralisasi menjadi ring semigrup $R[S]$, Ring Deret Pangkat Tergeneralisasi (RDPT) $R[[R^{\wedge}\{S, \omega\}]]$, dan Ring Deret Pangkat Tergeneralisasi Miring (RDPTM) $R[[S, \omega, \Omega]]$. Berdasarkan fakta bahwa struktur $R[[S, \omega, \Omega]]$ lebih umum dari $R[[X]]$, pada penelitian ini diberikan syarat cukup matriks atas RDPTM $R[[S, \omega, \Omega]]$ merupakan matriks bersih kuat. Hal ini dapat dilakukan dengan cara menambahkan beberapa syarat pada struktur ring R , monoid terurut tegas (S, ω) , dan homomorfisma monoid ω sehingga matriks atas $R[[S, \omega, \Omega]]$ merupakan matriks bersih kuat. Sebagai akibat langsung, hasil penelitian ini lebih umum dari syarat cukup matriks atas $R[[X]]$ merupakan matriks bersih kuat yang telah dikaji sebelumnya.

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References

\bibitem{anton} Anton, H., Dorres, C., 2005, \emph{Elementary Linear Algebra: Applications Version}, 9th Edition, New Jersey.

\bibitem{brown} Brown, W.C., 1993, \emph{Matrices Over Commutative Rings}, Marcel Dekker Inc., New York.

\bibitem{dummit} Dummit, D.S., 2004, \emph{Abstract Algebra}, John Wiley and Sons.

\bibitem{ribenboim} Ribenboim, P., 1990, Generalized power series rings, \emph{Lattice, Semigroups and Universal Algebra}, Plenum Press, New York, 271-277.

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\bibitem{gilmer} Gilmer, R., 1984, \emph{Commutative Semigroups Rings}, University of Chicago Press, Chicago.

\bibitem{hungerford} Hungerford, T.W., 1974, \emph{Algebra}, Springer-Verlag, New York.

\bibitem{adk} Adkins, W. A., Weintraub, S. H., 1992, \emph{Algebra "An Approach via Module Theory"}, Springer-Verlag, New York.

\bibitem{elliott} Elliott, G.A., Ribenboim, P., 1990, Fields of Generalized Power Series, \textit{Arch. Math.}, \textbf{54}: 365-371.

\bibitem{rib91} Ribenboim, P., 1991, Rings of Generalized Power Series: Nilpotent Elements, \textit{Abh. Math. Sem. Univ. Hambg.}, \textbf{61}: 15-33.

\bibitem{ribenboim92} Ribenboim, P., 1992, Noetherian Rings of Generalized Power Series, \textit{Journal of Pure and Applied Algebra}, \textbf{79}: 293-312.

\bibitem{benhissi} Benhissi, A., Ribenboim, P., 1993, Ordered Rings of Generalized Power Series, \emph{Ordered Algebraic Structures}.

\bibitem{ribenboim94} Ribenboim, P., 1994, Rings of Generalized Power Series II: Units and Zero-Divisors, \textit{Journal of Algebra}, \textbf{168}: 71-89.

\bibitem{ribenboim95} Ribenboim, P., 1995, Special Properties of Generalized Power Series, \textit{Journal of Algebra}, \textbf{173}: 566-586.

\bibitem{ribenboim97} Ribenboim, P., 1997, Semisimple Rings and Von Neumann Regular Rings of Generalized Power Series, \textit{Journal of Algebra}, \textbf{198}: 327-338.

\bibitem{var01a} Varadarajan, K., 2001, Noetherian generalized power series rings and modules, \textit{Communications In Algebra}, \textbf{29(1)}: 245-251.

\bibitem{fai19c} Faisol, A., Surodjo, B., Wahyuni, S., 2019, The Relation between Almost Noetherian Module, Almost Finitely Generated Module and \mathcal{N} -Noetherian Module, \textit{J. Phys.: Conf. Ser. 1306 012001}.

\bibitem{fai19a} Faisol, A., Surodjo, B., Wahyuni, S., 2019, The Sufficient Conditions for $R[X]$ -module $M[X]$ to be $S[X]$ -Noetherian, \textit{European Journal of Mathematical Sciences}, \textbf{5(1)}: 1-13.

\bibitem{fai19b} Faisol, A., Surodjo, B., Wahyuni, S., 2019, $T[S]$ -Noetherian Property on Generalized Power Series Modules, \textit{JP Journal of Algebra, Number Theory and Applications}, \textbf{43(1)}: 1-12.

\bibitem{fai20} Pardede, W.A.P., Faisol, A., Fitriani, 2020, The $X[[S]]$ -Sub-Exact Sequence of Generalized Power Series Rings, \textit{Al-Jabar J. Pendidik. Mat.}, \textbf{11(2)}: 299-306.

\bibitem{fai21} Faisol, A., Fitriani, Sifriyani, 2021, Determining the Noetherian Property of Generalized Power Series Modules by Using X -Sub-Exact Sequence, \textit{Journal of Physics: Conf. series 1751 012028}.

\bibitem{maz08} Mazurek, R., Ziembowski, M., 2008, On Von Neumann Regular Rings of Skew Generalized Power Series, \textit{Commun. Algebr.}, \textbf{36(5)}: 1855-1868.

\bibitem{maz09} Mazurek, R., Ziembowski, M., 2009, The ascending chain condition for principal left or right ideals of skew generalized power series rings, \textit{Journal of Algebra}, \textbf{322(4)}: 983-994.

\bibitem{maz10} Mazurek, R., Ziembowski, M., 2010, Weak dimension and right distributivity of skew generalized power series rings, \textit{J. Math. Soc. Japan}, \textbf{62(4)}: 1093-1112.

\bibitem{maz14} Mazurek, R., 2014, Rota-Baxter Operators on Skew Generalized Power Series Rings, \textit{J. Algebr. its Appl.}, \textbf{13(7)}: 1-10.

\bibitem{maz15} Mazurek, R., 2015, Left Principally Quasi-Baer and Left APP-rings of Skew Generalized Power Series, \textit{J. Algebr. its Appl.}, \textbf{14(3)}: 1-36.

\bibitem{maz17} Mazurek, R., Paykan, K., 2017, Simplicity of skew generalized power series rings, \textit{New York J. Math.}, \textbf{23}: 1273-1293.

\bibitem{fai09} Faisol, A., 2009, Homomorfisam Ring Deret Pangkat Teritlak Miring, \textit{J. Sains MIPA}, \textbf{15(2)}: pp. 119-124.

\bibitem{fai10} Faisol, A., 2010, Ideal Ring Deret Pangkat Teritlak Miring, \textit{Prosiding Seminar Nasional Sains MIPA dan Aplikasinya}, 202-207.

\bibitem{fai13} Faisol, A., 2013, Pembentukan Ring Faktor Pada Ring Deret Pangkat Teritlak Miring, \textit{Prosiding Semirata FMIPA Universitas Lampung}, 1-5.

\bibitem{fai14} Faisol, A., 2014, Endomorfisma Rigid dan Compatible pada Ring Deret Pangkat Tergeneralisasi Miring, \textit{J. Matematika}, \textbf{17(2)}:45-49.

\bibitem{fai16} Faisol, A., Surodjo, B., dan Wahyuni, S., 2016, Modul Deret Pangkat Tergeneralisasi Skew \mathcal{N} -Noether, \textit{Prosiding Seminar Nasional Aljabar, Penerapan, dan Pembelajarannya}, 95-100.

\bibitem{fai18} Faisol, A., Surodjo, B., Wahyuni, S., 2018, The Impact of The Monoid Homomorphism on The Structure of Skew Generalized Power Series Rings, \textit{Far East Journal of Mathematical Sciences}, \textbf{103(7)}:1215-12275.

\bibitem{fai19} Faisol, A., Fitriani, 2019, The Sufficient Conditions for Skew Generalized Power Series Module $M[[S, \omega]]$ to be $T[[S, \omega]]$ -Noetherian $R[[S, \omega]]$ -module, \textit{Al-Jabar J. Pendidik. Mat.}, \textbf{10(2)}:285-292.

\bibitem{chen} Chen, H., Kose, H., Kurtulmaz, Y., 2016, Strongly Clean Matrices Over Power Series, \emph{Kyungpook Math. J.} \textbf{56}: 387-396.

\bibitem{Yuanlin Li} Li, Y., 2007, Strongly clean matrix rings over local rings, \textit{Journal of Algebra}, \textbf{312}: 397-404.

\bibitem{Borooha} Borooha, G., Diesl, A.J., Dorsey, T.J., 2008, Strongly clean matrix rings over commutative local rings, \textit{Journal of Pure and Applied Algebra}, \textbf{212}: 281-296.

\bibitem{chen13} Chen, H., Gurgun, O., Kose, H., 2013, Strongly clean matrices over commutative local rings, \textit{J. Algebra Appl.}, \textbf{12}: 1250126 [13 pages]: 10.1142/S0219498812501265.

\bibitem{rugayah} Rugayah, S., Faisol, A., Fitriani, 2021, Matriks atas Ring Deret Pangkat Tergeneralisasi Miring, \textit{BAREKENG: J. Il. Mat. & Ter.}, \textbf{15(1)}: 157-166.

\bibitem{nicholson} Nicholson, W.K., 2005, Clean rings: A survey, \textit{Advances in Ring Theory}, World Scientific Publishing, 181-198.

\bibitem{liu} Liu, Z., 2004, Special properties of rings of generalized power series, \textit{Comm. Algebra}, \textbf{32(8)}:3215-3226.

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